

Figure 1A

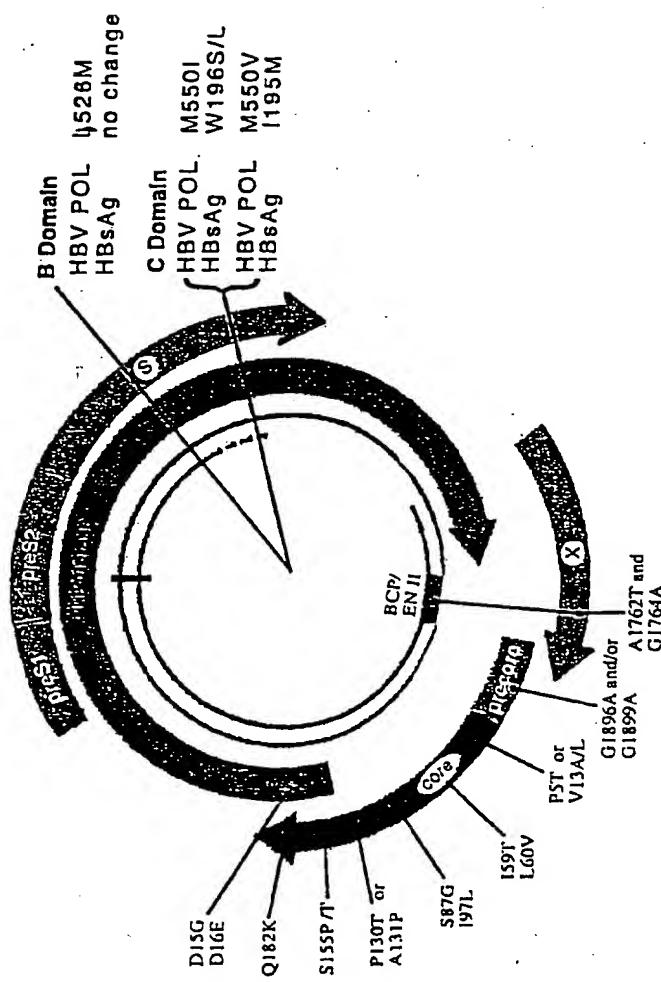


Figure 1B

(421)	430	440	450
422	438		
<u>SNDLSWLSDL VSAAFYHI<sub>P</sub>PL HPAAMPHLLIV GSSGLD<sub>S</sub>RYVA</u>			
Domain A			
<u>HBSAg G112R</u>	<u>T123P</u>	<u>Y/F134S</u>	<u>D144E G145R</u>
460	470	480	490
464 466	477	488	499
RLSST <sub>N</sub> S <sup>R</sup> <sub>N</sub> NI*N N <sub>Y</sub> <sub>H</sub> Q <sup>Y</sup> <sub>H</sub> G <sub>R</sub> ***D <sub>N</sub> LH D <sub>N</sub> <sup>Y</sup> <sub>S</sub> CSR <sub>D</sub> <sub>Q</sub> LYVS LL <sub>M</sub> LLY <sub>K</sub> <sub>Q</sub> TY <sub>F</sub> GR <sub>W</sub>			
<u> </u>			
<u>HBSAg</u>	<u>A157D</u>	<u>E164D</u>	<u>F170L</u>
500	510	520	530
512	519	523/524/526/528/530	
<u>KLHL<sub>Y</sub><sub>L</sub>S<sub>A</sub>HPII<sub>V</sub> LGFRKI<sub>L</sub>PMGV<sub>G</sub> GLSPFLLAQF TSAIC<sub>L</sub>S<sub>A</sub>V<sub>M</sub>V<sub>T</sub><sup>R</sup>C<sub>R</sub></u>			
Domain B			
<u>W196L W199S</u>			
<u>HBSAg</u>	<u>M195I/S196W M198I S204T</u>	<u>S210R</u>	
540	550	560	
546	550 553	559	565
<u>AFF<sub>P</sub>HCL<sub>V</sub>A<sub>V</sub>FS<sub>A</sub>Y MDDV<sub>L</sub><sub>M</sub>VLGAK<sub>R</sub>S<sub>T</sub> V<sub>G</sub><sub>O</sub><sub>E</sub>HL<sub>S</sub><sub>R</sub>ES<sub>F</sub>LY<sub>F</sub>T<sub>A</sub>S<sub>A</sub></u>			
Domain C			
570	580	590	
575			
<u>I<sub>V</sub><sub>T</sub>C<sub>N</sub>S<sub>F</sub>VLLS<sub>D</sub>L<sub>V</sub>GI HLNPN<sub>Q</sub>KTKRW GYSLNFMGY<sub>I</sub><sub>V</sub>I G</u>			
Domain D		Domain E	

Figure 2

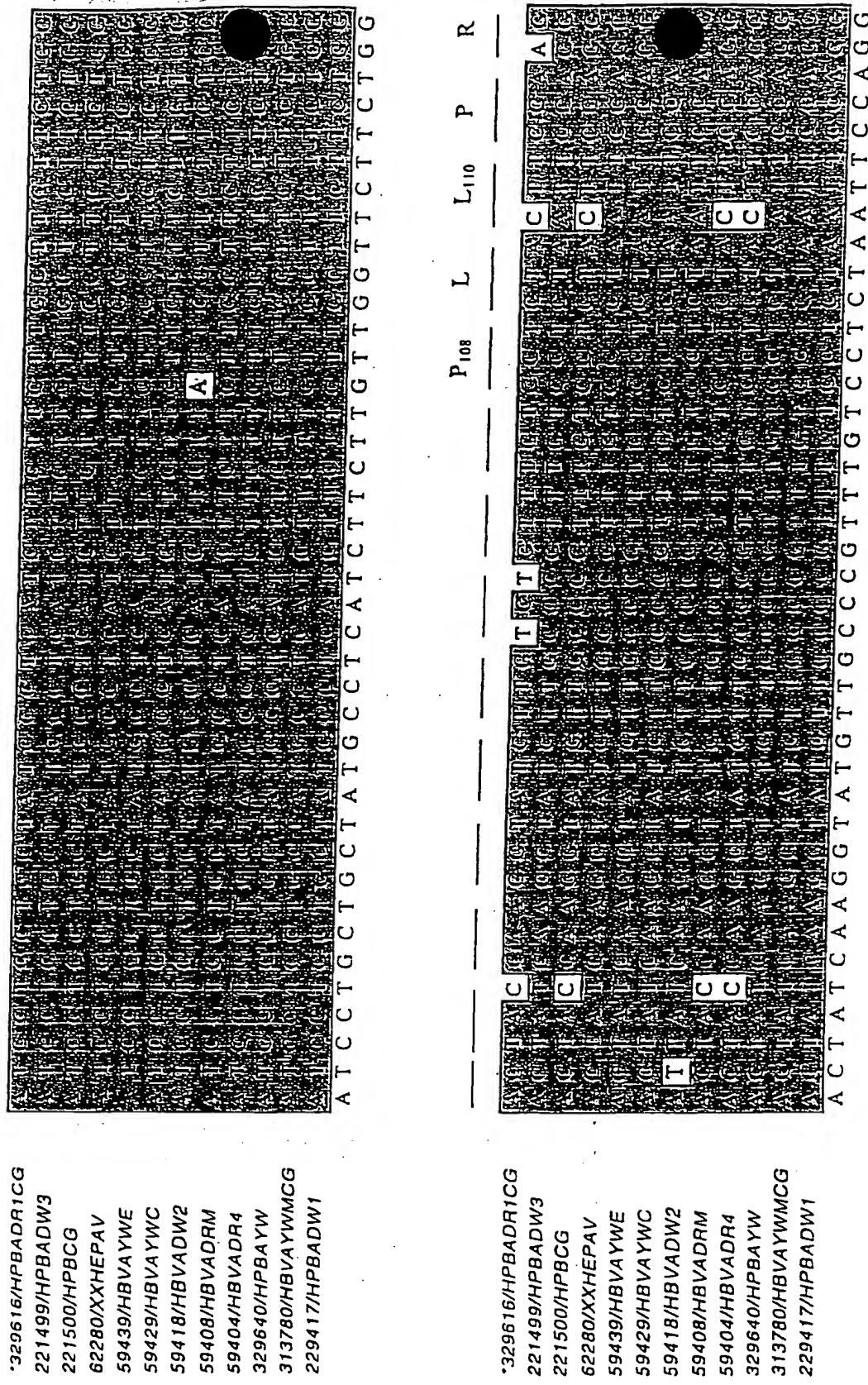


Figure 3

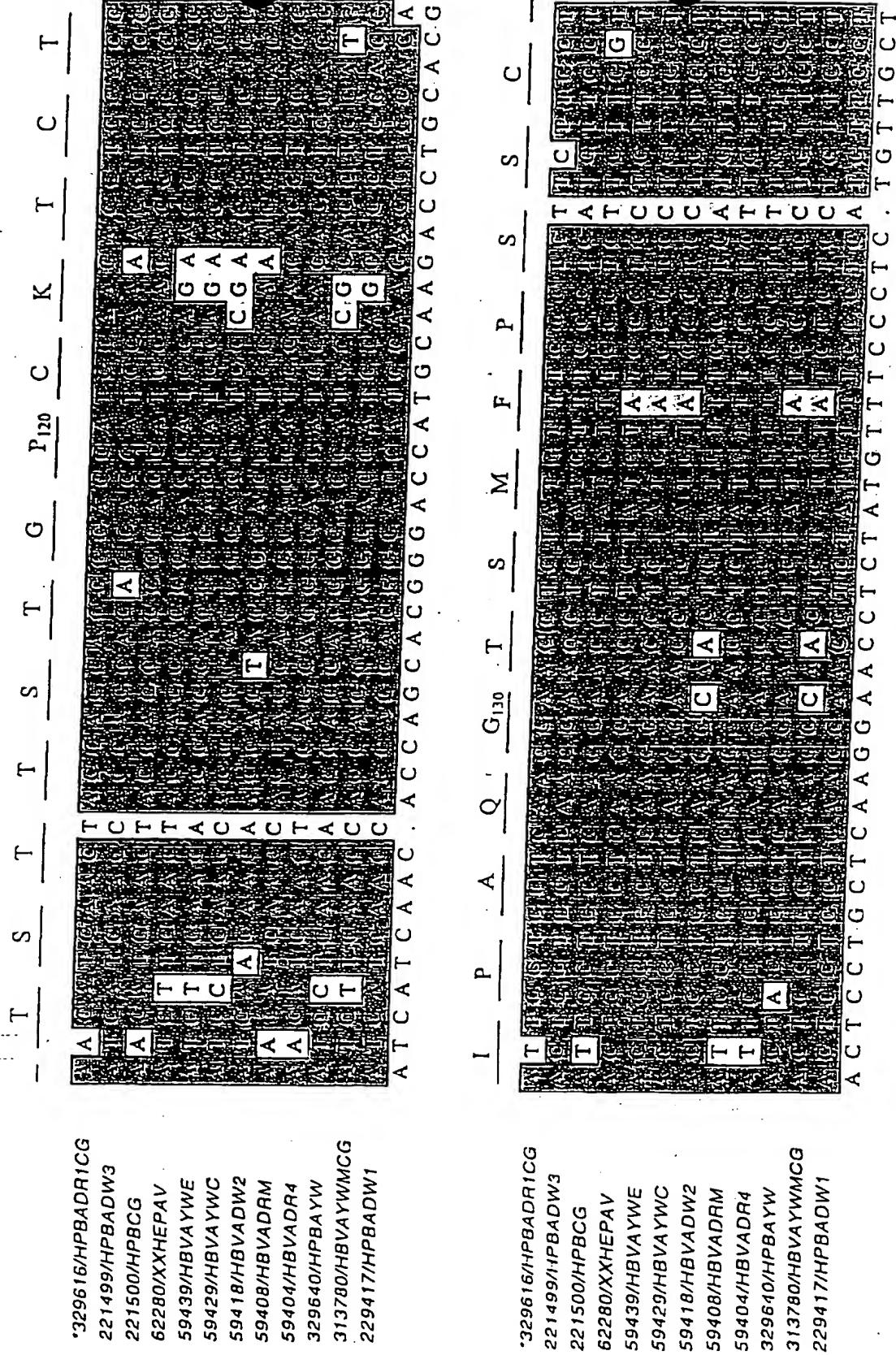


Figure 3 continued

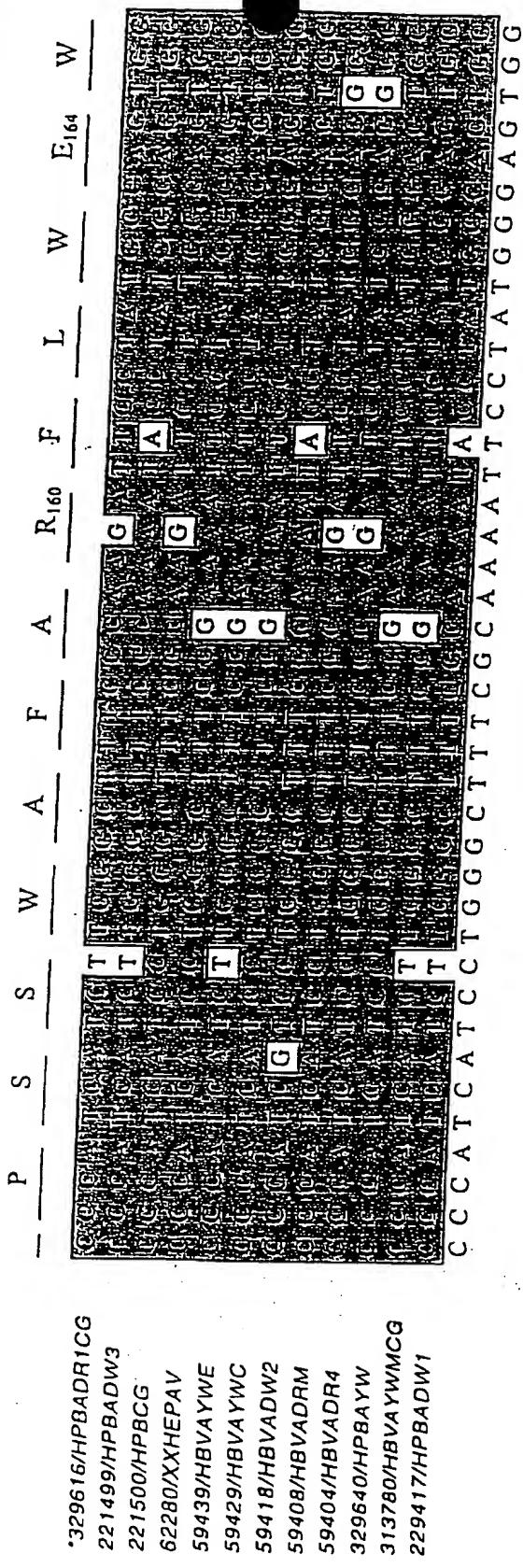
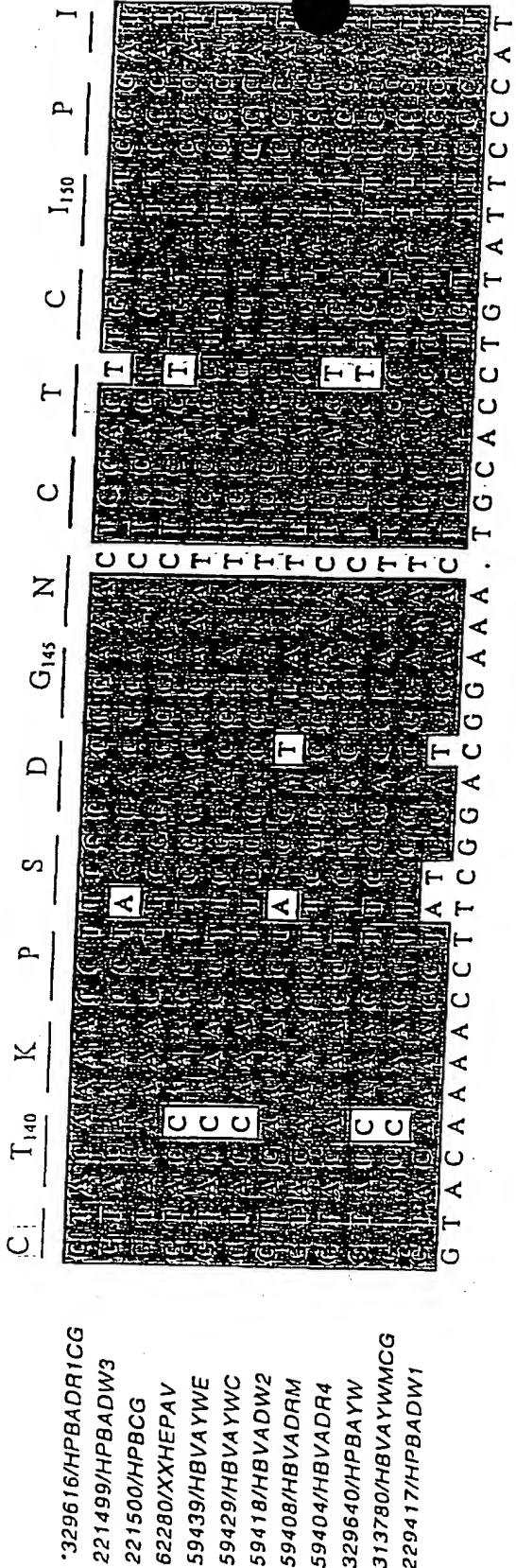


Figure 3 continued

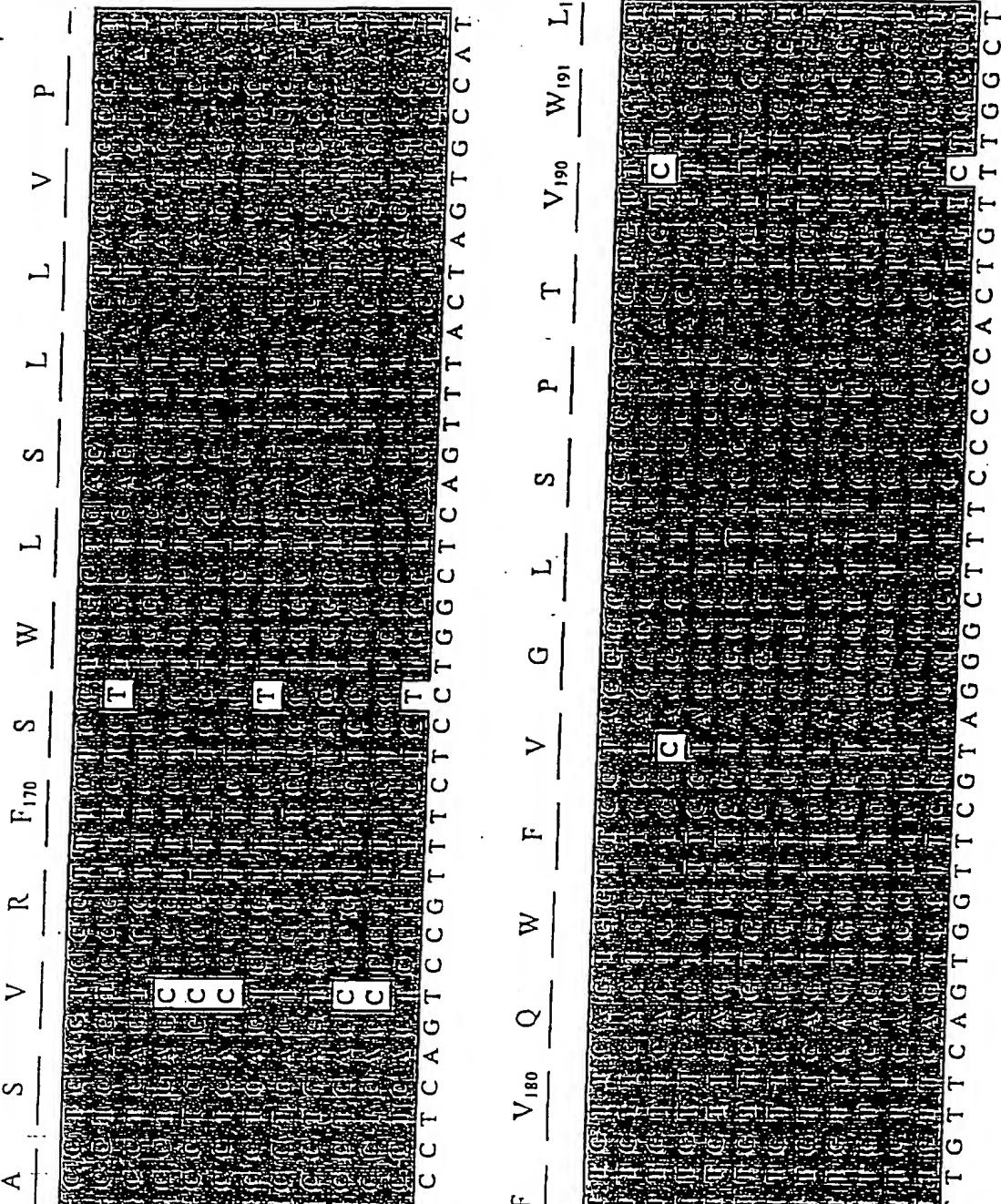


Figure 3 continued

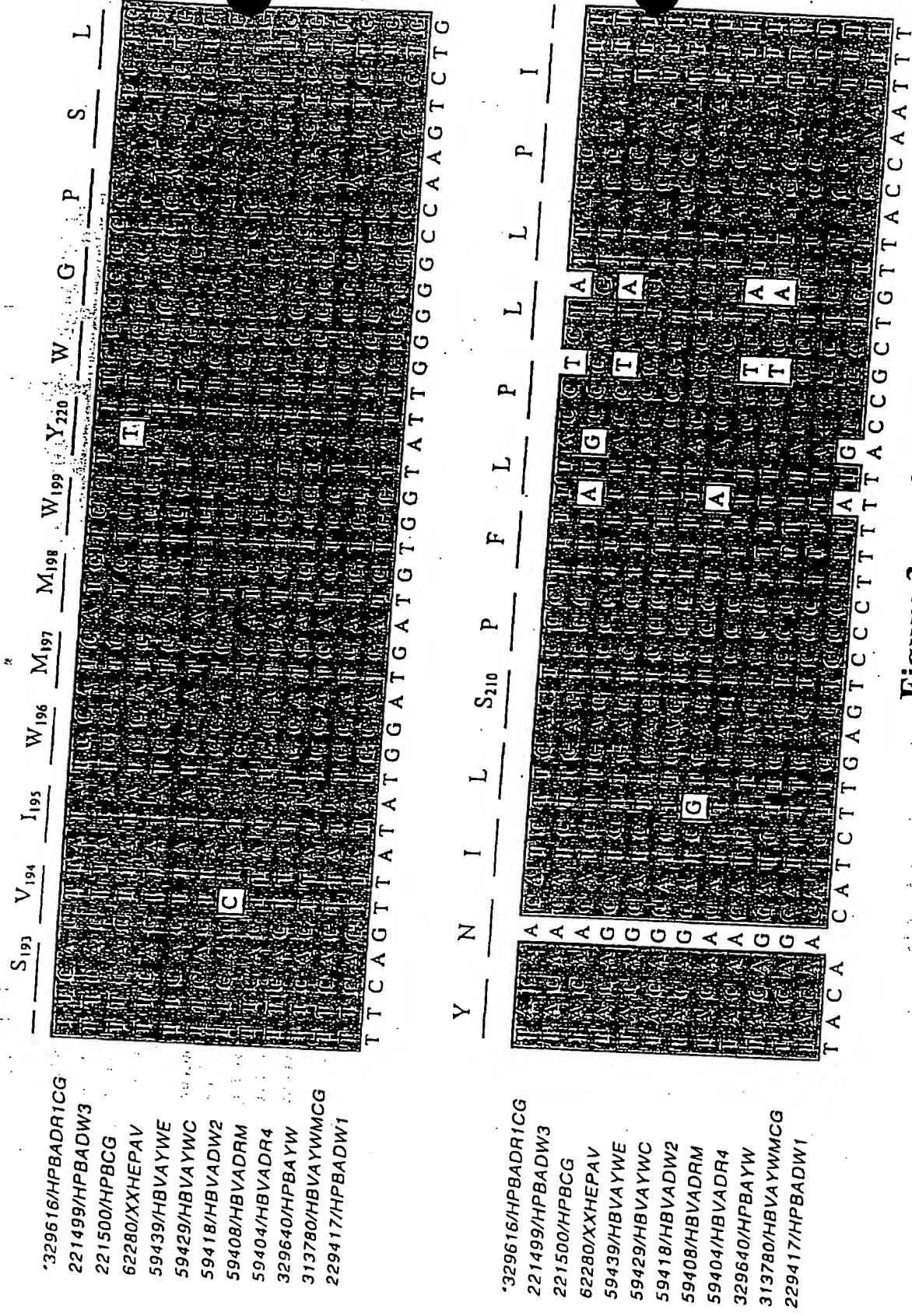


Figure 3 continued

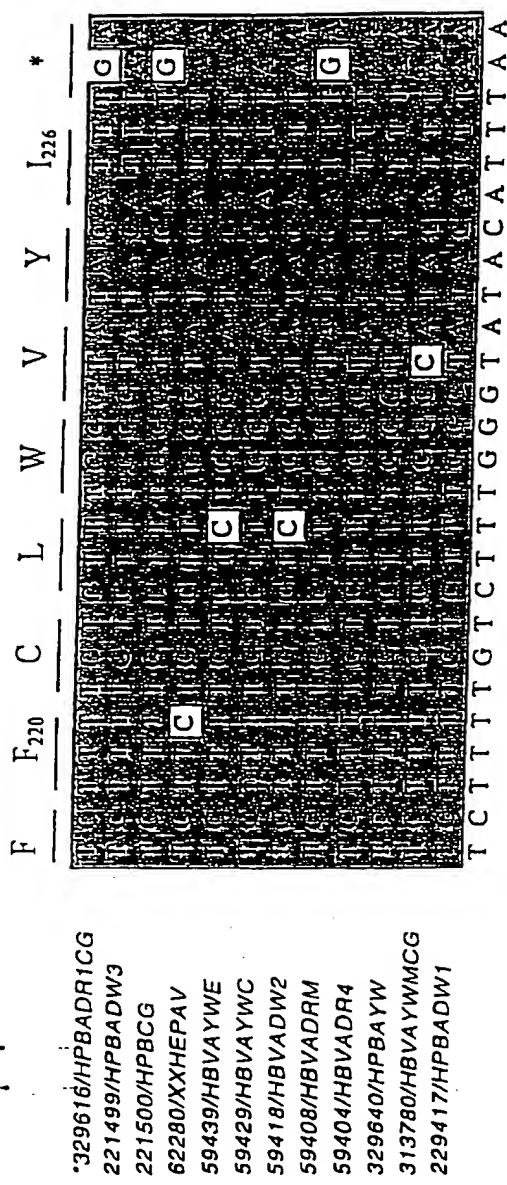
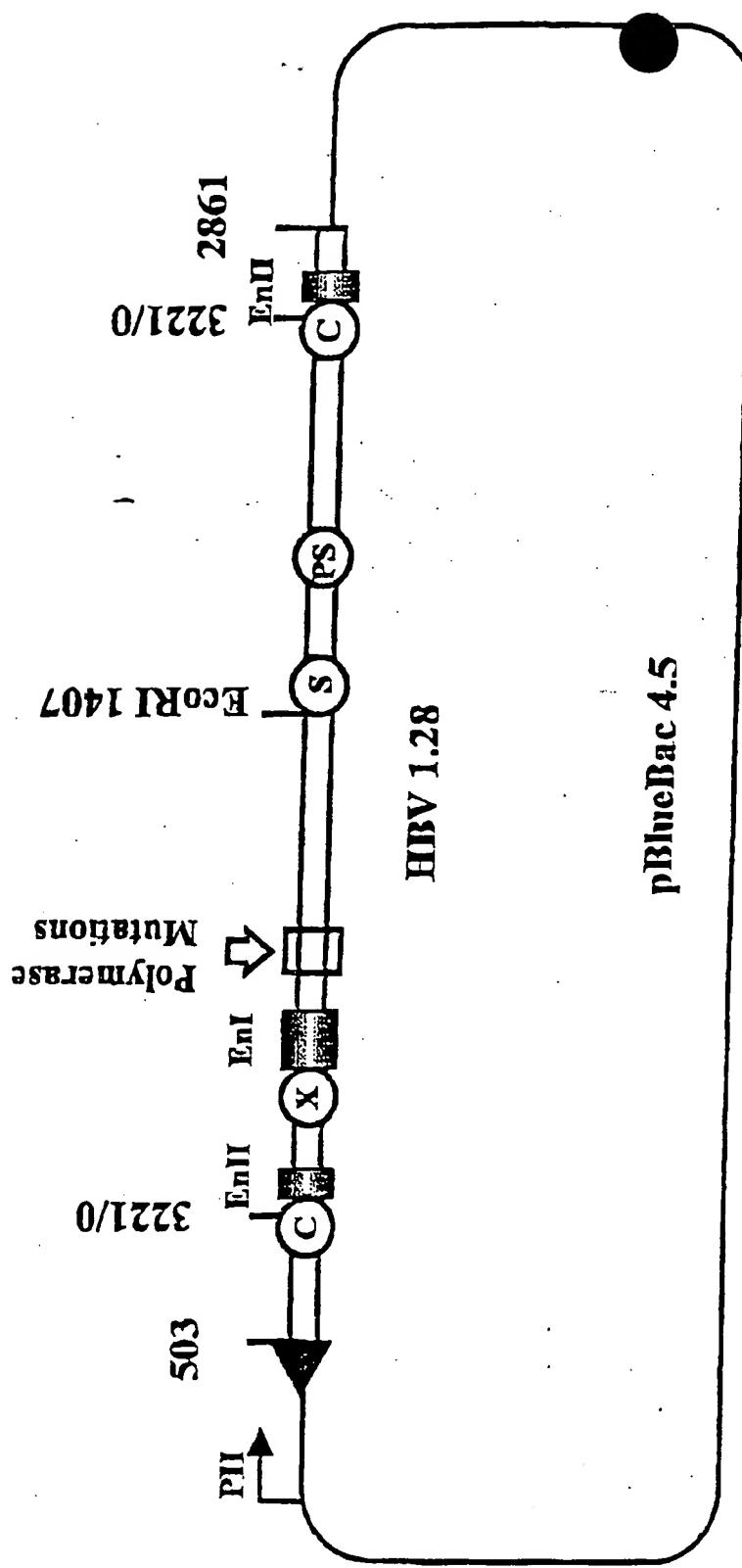


Figure 3 continued

**pBBHBV1.28**



**Figure 4A**

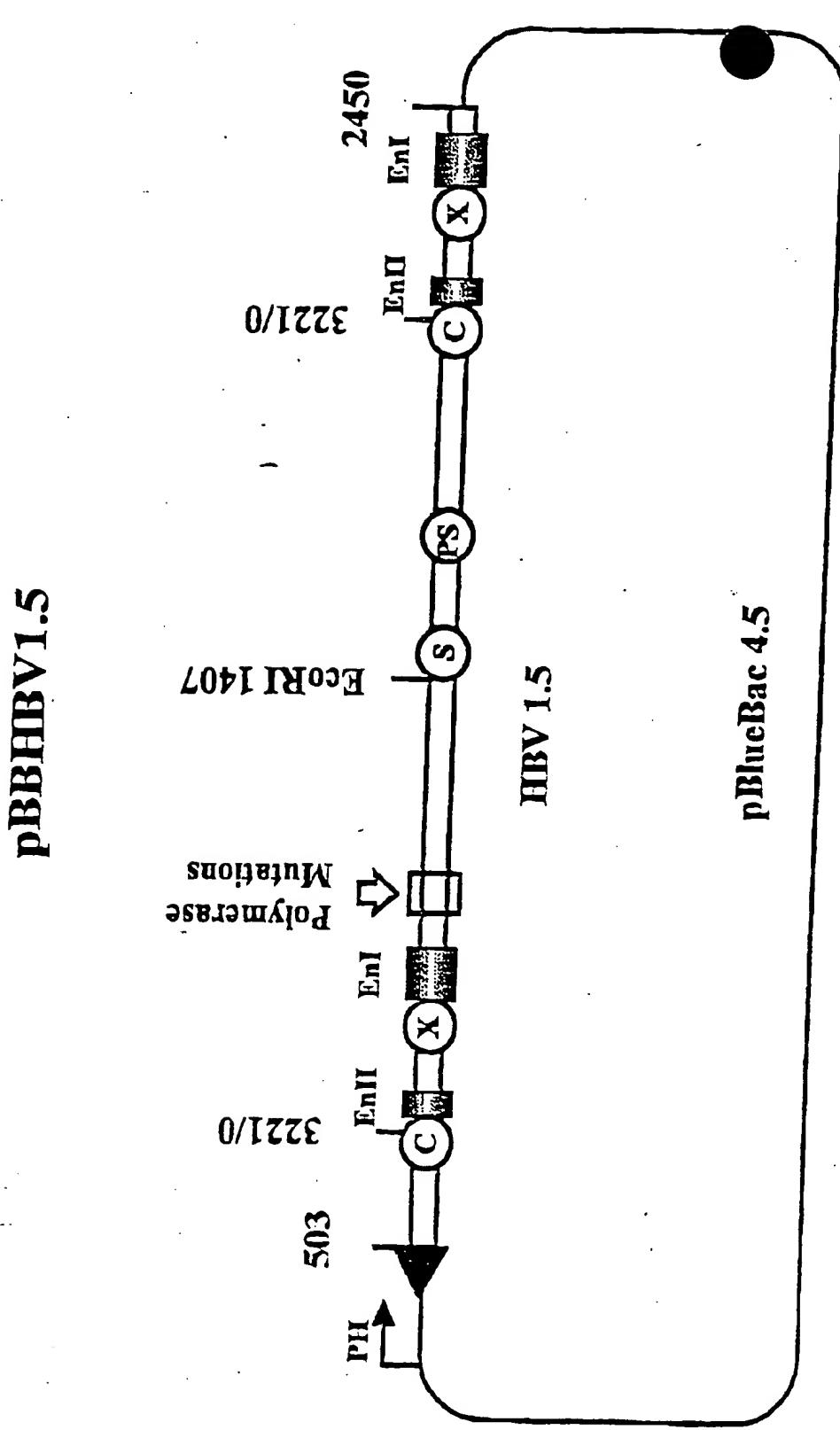


Figure 4B

Sequence Range: 1 to 4084

10	20	30	40	50
GGACGACCCCTCGCGGGCGCTGGACTCTCTCGTCCCCCTCTCCGTC				
60	70	80	90	100
TGCCGTTCCAGCCGACCACGGGGCGCACCTCTCTTACGCGGTCTCCCCG				
110	120	130	140	150
TCTGTGCCTCTCATCTGCCGGTCCGTGCACTTCGCTTCACCTCTGCA				
160	170	180	190	200
CGTTGCATGGAGACCACCGTGAACGCCATCAGATCCTGCCAAGGTCTT				
210	220	230	240	250
ACATAAGAGGACTCTGGACTCCCAGCAATGTCAACGACCGACCTTGAGG				
260	270	280	290	300
CCTACTTCAAAGACTGTGTGTTAAGGACTGGGAGGAGCTGGGGAGGAG				
310	320	330	340	350
ATTAGGTTAAAGGTCTTGTATTAGGAGGCTGTAGGCATAAATTGGTCTG				
360	370	380	390	400
CGCACCAAGCACCATGCAACTTTCACCTCTGCCATAATCATCTCTTGTAC				
410	420	430	440	450
ATGTCCCCTGTTCAAGCCTCCAAGCTGTGCCTGGGTGGCTTGGGCA				
460	470	480	490	500
TGGACATTGACCCCTATAAAGAATTGGAGCTACTGTGGAGTTACTCTCG				
510	520	530	540	550
TTTTGCCTCTGACTCTTCCCTCGTCAGAGATCTCCTAGACACCGC				
560	570	580	590	600
CTCAGCTCTGTATCGAGAACGCCTAGAGTCTCCTGAGCATTGCTCACCTC				
610	620	630	640	650
ACCATACTGCACTCAGGCAAGCCATTCTCTGCTGGGGGAATTGATGACT				
660	670	680	690	700
CTAGCTACCTGGGTGGTAATAATTGGAAGATCCAGCATCCAGGGATCT				

Figure 5A

710            720            730            740            750  
 AGTAGTCATTATGTTAATCTAACATGGGTTAAAGATCAGGCAACTAT  
  
 760            770            780            790            800  
 TGTGGTTCATATATCTTGCCTACTTTGGAAGAGAGACTGTACTTGAA  
  
 810            820            830            840            850  
 TATTTGGCTCTTCCGGAGTGTGGATTGCACCCCTCCAGCCTATAGACC  
  
 860            870            880            890            900  
 ACCAAATGCCCTATCTTATCACACACTCCGGAAACTACTGTTAGAC  
  
 910            920            930            940            950  
 GACGGGACCGAGGCAGGTCCCCCTAGAAGAAGAACTCCCTCGCCTCGCAGA  
  
 960            970            980            990            1000  
 CGCAGATCTCAATGCCCGTGCAGAACAGATCTCAATCTCGGAAATCTCA  
  
 1010          1020          1030          1040          1050  
 ATGTTAGTATTCTTGGACTCATAGGTGGAACTTTACGGGCTTAT  
  
 1060          1070          1080          1090          1100  
 TCCTCTACAGTACCTATCTTAATCCTGAATGGCAAACCTCCCTTTCC  
  
 1110          1120          1130          1140          1150  
 TAAGATTCAATTACAAGAGGACATTATTAATAGGTGTCAACAATTGTGG  
  
 1160          1170          1180          1190          1200  
 GCCCTCTCACTGTAAATGAAAAGAGAAGATTGAAATTAAATTATGCCTGCT  
  
 1210          1220          1230          1240          1250  
 AGATTCTATCCTACCCACACTAAATATTGCCCTAGACAAAGGAATTAA  
  
 1260          1270          1280          1290          1300  
 ACCTTATTATCCAGATCAGGTAGTTAATCATTACTTCCAAACCAGACATT  
  
 1310          1320          1330          1340          1350  
 ATTTACATACTTTGGAAGGCTGGTATTCTATATAAGAGGGAAACCACA  
  
 1360          1370          1380          1390          1400  
 CGTAGCGCATCTTGGGTCAACCATATTCTGGAAACAAGAGCTACA  
  
 1410          1420          1430          1440          1450  
 GCATGGGAGGGTGGTCATCAAAACCTCGCAAAGGCATGGGACGAATCTT

Figure 5A continued

1460        1470        1480        1490        1500  
 TCTGTTCCCAACCCTCTGGGATTCTTCCCGATCATCAGTTGGACCCTGC  
  
 1510        1520        1530        1540        1550  
 ATTCGGAGCCAACCTCAAACAATCCAGATTGGGACTTCAACCCCATCAAGG  
  
 1560        1570        1580        1590        1600  
 ACCACTGGCCAGCAGCCAACCAGGTAGGAGTAGGGAGCATTGGGCCAGGG  
  
 1610        1620        1630        1640        1650  
 CTCACCCCTCCACACGGCGGTATTTGGGGTGGAGCCCTCAGGCTCAGGG  
  
 1660        1670        1680        1690        1700  
 CATATTGACCACAGTGTCAACAATTCCCTCCTGCCTCCACCAATCGGC  
  
 1710        1720        1730        1740        1750  
 AGTCAGGAAGGCAGCCTACTCCCATCTCTCCACCTCTAAGAGACAGTCAT  
  
 1760        1770        1780        1790        1800  
 CCTCAGGCCATGCAGTGGATTCCACTGCCTCCACCAAGCTCTGCAGGA  
  
 1810        1820        1830        1840        1850  
 TCCCAGAGTCAGGGGTCTGTATCTCCTGCTGGTGGCTCCAGTCAGGAA  
  
 1860        1870        1880        1890        1900  
 CAGTAAACCCCTGCTCCGAATATTGCCTCTCACATCTCGTCAATCTCCGCG  
  
 1910        1920        1930        1940        1950  
 AGGACTGGGGACCCCTGTGACGAACATGGAGAACATCACATCAGGATTCC  
  
 1960        1970        1980        1990        2000  
 AGGACCCCTGCTCGTGTACAGGCGGGTTTTCTTGTGACAAGAACATCC  
  
 2010        2020        2030        2040        2050  
 TCACAATACCGCAGAGTCTAGACTCGTGGTGGACTTCTCTCAATTCTA  
  
 2060        2070        2080        2090        2100  
 GGGGGATCTCCCGTGTCTTGGCCAAATTCGCACTCCCCAACCTCCAA  
  
 2110        2120        2130        2140        2150  
 TCACTCACCAACCTCCTGTCCTCCAATTGTCCTGGTTATCGCTGGATGT  
  
 2160        2170        2180        2190        2200  
 GTCTGCAGCGTTTATCATATTCCCTTCACTCCTGCTGCTATGCCTCATC

Figure 5A continued

2210 2220 2230 2240 2250  
 TTCTTATTGGTTCTTCTGGATTATCAAGGTATGTTGCCCGTTGTCCTCT

2260 2270 2280 2290 2300  
 AATTCCAGGATCAACAAACAACCAGTACGGGACCATGAAAACCTGCACGA

2310 2320 2330 2340 2350  
 CTCCTGCTCAAGGCAACTCTATGTTCCCTCATGTTGCTGTACAAAACCT

2360 2370 2380 2390 2400  
 ACGGATGGAAATTGCACCTGTATTCCCATCCCATCGTCCTGGGCTTCGC

2410 2420 2430 2440 2450  
 AAAATACCTATGGGAGTGGGCCTCAGTCGTTCTCTGGCTCAGTTAC

2460 2470 2480 2490 2500  
 TAGTGCCATTGTTCACTGGGTTCTAGTCCGTTCTCTGGCTCAGTTAC

2510 2520 2530 2540 2550  
 TCAGCTATATGGATGATGTGGTATTGGGGCCAAGTCTGTACAGCATCGT

2560 2570 2580 2590 2600  
 GAGTCCCTTATACCGCTGTTACCAATTCTTTGTCTCTGGGTATAACA

2610 2620 2630 2640 2650  
 TTTAAACCTAACAAAACAAAAAGATGGGTTATTCCCTAAACTTCATGG

2660 2670 2680 2690 2700  
 GCTACATAATTGGAAGTTGGGAACTTGCCACAGGATCATATTGTACAA

2710 2720 2730 2740 2750  
 AAGATCAAACACTGTTAGAAAACCTCCTGTTAACAGGCCTATTGATTG

2760 2770 2780 2790 2800  
 GAAAGTATGTCAAAGAATTGTGGGTCTTGGGCTTGCTGCTCCATTAA

2810 2820 2830 2840 2850  
 CACAATGTGGATATCCTGCCTTAATGCCTTGTATGCATGTATAAGCT

2860 2870 2880 2890 2900  
 AAACAGGCTTCACTTCTGCCAACCTACAAGGCCTTCTAAGTAAACA

2910 2920 2930 2940 2950  
 GTACATGAACCTTACCCGTTGCTCGCAACGGCCTGGTCTGTGCCAAG

Figure 5A continued

2960 2970 2980 2990 3000  
 TGTTTGCTGACGCAACCCCCACTGGCTGGGCTTGGCCATAGGCCATCAG  
  
 3010 3020 3030 3040 3050  
 CGCATGCGTGGAACCTTGTGGCTCCTCTGCCGATCCATACTGCGGAAC  
  
 3060 3070 3080 3090 3100  
 CCTAGCCGCTTGTGCTCGCAGCCGGCTGGAGCAAAGCTCATCGGAA  
  
 3110 3120 3130 3140 3150  
 CTGACAATTCTGTCGTCCTCTCGCGGAAATATAACATCGTTCCATGGCTG  
  
 3160 3170 3180 3190 3200  
 CTAGGCTGTACTGCCAACTGGATCCTCGCGGGACGTCCCTTGTACGT  
  
 3210 3220 3230 3240 3250  
 CCCGTCGGCGCTGAATCCCAGCGACGACCCCTCGCGGGGCCGCTGGGAC  
  
 3260 3270 3280 3290 3300  
 TCTCTCGTCCCCTCTCCGTCTGCCGTTCCAGCCGACCACGGGGCGCAC  
  
 3310 3320 3330 3340 3350  
 TCTCTTACGCGGTCTCCCCGTCTGTGCCTCTCATCTGCCGGTCCGTGT  
  
 3360 3370 3380 3390 3400  
 GCACTTCGTTCACCTCTGCACGTTGCATGGAGACCACCGTGAACGCCA  
  
 3410 3420 3430 3440 3450  
 TCAGATCCTGCCAAGGTCTTACATAAGAGGACTCTGGACTCCCAGCAA  
  
 3460 3470 3480 3490 3500  
 TGTCAACGACCGACCTTGAGGCCTACTTCAAAGACTGTGTGTTAAGGAC  
  
 3510 3520 3530 3540 3550  
 TGGGAGGAGCTGGGGAGGAGATTAGGTTAAAGGTCTTGTATTAGGAGG  
  
 3560 3570 3580 3590 3600  
 CTGTAGGCATAAATTGGTCTGCGCACAGCACCATGCAACTTTCACCT  
  
 3610 3620 3630 3640 3650  
 CTGCCTAATCATCTTGTACATGTCCACTGTTCAAGCCTCCAAGCTGT  
  
 3660 3670 3680 3690 3700  
 GCCTTGGGTGGCTTGGGCATGGACATTGACCCCTATAAAGAATTGGA

Figure 5A continued

3710        3720        3730        3740        3750  
GCTACTGTGGAGTTACTCTCGTTTGCCTCTGACTCTTCCTCCGT

3760        3770        3780        3790        3800  
CAGAGATCTCCTAGACACCGCCTCAGCTCTGTATCGAGAAGCCTTAGAGT

3810        3820        3830        3840        3850  
CTCCTGAGCATTGCTCACCTCACCACTGCACTCAGGCAAGCCATTCTC

3860        3870        3880        3890        3900  
TGCTGGGGGAATTGATGACTCTAGCTACCTGGTGGTAATAATTGGA

3910        3920        3930        3940        3950  
AGATCCAGCATCCAGGGATCTAGTAGTCATTATGTTAACTAACATGG

3960        3970        3980        3990        4000  
GTTTAAAGATCAGGCAACTATTGTGGTTCATATATCTTGCCTTACTTT

4010        4020        4030        4040        4050  
GGAAGAGAGACTGTACTTGAATATTGGTCTTTCGGAGTGTGGATTG

4060        4070        4080  
CACTCCTCCAGCCTATAGACCACCAAATGCCCT

Figure 5A continued

Sequence Range: 1 to 4496

10            20            30            40            50  
 GATATCCTGCCTTAATGCCTTGTATGCATGTATAAAGCTAACAGGCT

60            70            80            90            100  
 TTCACTTTCTGCCAACCTACAAGGCCTTCTAAGTAAACAGTACATGAA

110          120          130          140          150  
 CCTTTACCCCGTTGCTCGCAACGGCCTGGTCTGTGCCAAGTGTGCTG

160          170          180          190          200  
 ACGCAACCCCCACTGGCTGGGCTTGGCATAGGCCATCAGCGCATGCGT

210          220          230          240          250  
 GGAACCTTGTGGCTCCTCTGCCATCCATACTGCGGAACCTCTAGCCGC

260          270          280          290          300  
 TTGTTTGCTCGCAGCCGGTCTGGAGCAAAGCTCATCGGAAC TGACAATT

310          320          330          340          350  
 CTGTCGTCCCTCGCGGAAATATACATCGTTCCATGGCTGCTAGGCTGT

360          370          380          390          400  
 ACTGCCAACTGGATCCTCGCGGGACGTCCCTTGTTACGTCCCGTCGGC

410          420          430          440          450  
 GCTGAATCCCGCGGACGACCCCTCGCGGGGCCGCTGGGACTCTCGTC

460          470          480          490          500  
 CCCTTCTCCGTCTGCCGTTCCAGCCGACCACGGGGCGCACCTCTCTTAC

510          520          530          540          550  
 CGGGTCTCCCCGTCTGTGCCTTCTCATCTGCCGGTCCGTGTGCACTTCGC

560          570          580          590          600  
 TTCACCTCTGCACGTTGCATGGAGACCACCGTGAACGCCATCAGATCCT

610          620          630          640          650  
 GCCCAAGGTCTTACATAAGAGGACTCTGGACTCCCAGCAATGTCAACGA

660          670          680          690          700  
 CCGACCTTGAGGCCTACTTCAAAGACTGTGTGTTAAGGACTGGGAGGAG

Figure 5B

710            720            730            740            750  
 CTGGGGGAGGAGATTAGGTTAAAGGTCTTGTATTAGGAGGCTGTAGGCA  
  
 760            770            780            790            800  
 TAAATTGGTCTGCGCACAGCACCATGCAACTTTTCACCTCTGCCTAAT  
  
 810            820            830            840            850  
 CATCTCTTGTACATGTCCCACGTGTTCAAGCCTCCAAGCTGTGCCTGGGT  
  
 860            870            880            890            900  
 GGCTTGGGGCATGGACATTGACCCTATAAAGAATTGGAGCTACTGTG  
  
 910            920            930            940            950  
 GAGTTACTCTCGTTTGCCCTCTGACTTCTTCCTCCGTAGAGATCT  
  
 960            970            980            990            1000  
 CCTAGACACCGCCTCAGCTCTGTATCGAGAAGCCTAGAGTCTCCTGAGC  
  
 1010          1020          1030          1040          1050  
 ATTGCTCACCTCACCATACTGCACTCAGGCAAGCCATTCTCTGCTGGGG  
  
 1060          1070          1080          1090          1100  
 GAATTGATGACTCTAGCTACCTGGGTGGTAATAATTGGAAGATCCAGC  
  
 1110          1120          1130          1140          1150  
 ATCCAGGGATCTAGTAGTCAATTATGTTAACATGAGATGGTTAAAGA  
  
 1160          1170          1180          1190          1200  
 TCAGGCAACTATTGTGGTTCATATATCTGCCTACTTTGGAAGAGAG  
  
 1210          1220          1230          1240          1250  
 ACTGTACTTGAATATTGGTCTTTCGGAGTGTGGATTGCACTCCTCC  
  
 1260          1270          1280          1290          1300  
 AGCCTATAGACCACCAAATGCCCTATCTTATCAACACTCCGGAAACTA  
  
 1310          1320          1330          1340          1350  
 CTGTTGTTAGACGACGGGACCGAGGCAGGTCCCCCTAGAAGAAGAACTCCC  
  
 1360          1370          1380          1390          1400  
 TCGCCTCGCAGACGCAGATCTCAATGCCCGTGCAGAAGATCTCAATC  
  
 1410          1420          1430          1440          1450  
 TCGGGAATCTCAATGTTAGTATTGACTCATAAGGTGGAAACTTT

Figure 5B continued

1460        1470        1480        1490        1500  
 ACGGGGCTTATTCCCTACAGTACCTATCTTAATCCTGAATGGCAAAC  
  
 1510        1520        1530        1540        1550  
 TCCTTCCTTCCTAAGATTCAAGAGGACATTATTAATAGGTGTC  
  
 1560        1570        1580        1590        1600  
 AACAAATTGTGGGCCCTCACTGTAAATGAAAAGAGAAGATTGAAATT  
  
 1610        1620        1630        1640        1650  
 ATTATGCCTGCTAGATTCTATCCTACCCACACTAAATATTGCCCTTAGA  
  
 1660        1670        1680        1690        1700  
 CAAAGGAATTAAACCTTATTATCCAGATCAGGTAGTTAACATTACTTCC  
  
 1710        1720        1730        1740        1750  
 AAACCAGACATTATTACATACTCTTGAAGGCTGGTATTCTATATAAG  
  
 1760        1770        1780        1790        1800  
 AGGGAAACCACACGTAGCGCATCTTGCGGGTCACCATATTCTGGGA  
  
 1810        1820        1830        1840        1850  
 ACAAGAGCTACAGCATGGAGGTTGGTCATCAAAACCTCGCAAAGGCATG  
  
 1860        1870        1880        1890        1900  
 GGGACGAATCTTCTGGTCCCAACCCTCTGGGATTCTTCCCATCATCA  
  
 1910        1920        1930        1940        1950  
 GTTGGACCTGCATTGGAGCCAATCAAAACATCCAGATTGGGACTTCA  
  
 1960        1970        1980        1990        2000  
 ACCCCATCAAGGACCCTGGCCAGCAGCCAACCAGGTAGGAGTGGGAGCA  
  
 2010        2020        2030        2040        2050  
 TTCGGGCCAGGGCTCACCCCTCCACACGGCGGTATTTGGGGTGGAGCCC  
  
 2060        2070        2080        2090        2100  
 TCAGGCTCAGGGCATATTGACCACAGTGTCAACAATTCCCTCCTGCCT  
  
 2110        2120        2130        2140        2150  
 CCACCAATCGGCAGTCAGGAAGGCAGCCTACTCCATCTCCACCTCTA  
  
 2160        2170        2180        2190        2200  
 AGAGACAGTCATCCTCAGGCCATGCAGTGGATTCCACTGCCTCCACCA

Figure 5B continued

2210        2220        2230        2240        2250  
 AGCTCTGCAGGATCCCAGAGTCAGGGGTCTGTATCTCCTGCTGGTGGCT  
  
 2260        2270        2280        2290        2300  
 CCAGTTCAAGAACAGTAAACCCTGCTCCGAATATTGCCTCTCACATCTCG  
  
 2310        2320        2330        2340        2350  
 TCAATCTCCCGAGGACTGGGGACCCCTGTGACGAACATGGAGAACATCAC  
  
 2360        2370        2380        2390        2400  
 ATCAGGATTCCCTAGGACCCCTGCTCGTGTACAGGCCGGTTTTCTTGT  
  
 2410        2420        2430        2440        2450  
 TGACAAGAACATCCTCACAAATACCGCAGAGTCTAGACTCGTGGTGGACTTCT  
  
 2460        2470        2480        2490        2500  
 CTCAATTCTAGGGGGATCTCCCGTGTGTCTGGCCAAAATTCGCAGTC  
  
 2510        2520        2530        2540        2550  
 CCCAACCTCCAATCACTCACCAACCTCCTGTCCTCCAATTGTCCTGGT  
  
 2560        2570        2580        2590        2600  
 ATCGCTGGATGTGTCTGC GGCGTTTATCATATTCCCTTTCATCCTGCTG  
  
 2610        2620        2630        2640        2650  
 CTATGCCTCATCTTCTTATTGGTTCTCTGGATTATCAAGGTATGTTGCC  
  
 2660        2670        2680        2690        2700  
 CGTTGTCCTCTAATTCCAGGATCAACAAACAAACCAAGTACGGGACCATGCA  
  
 2710        2720        2730        2740        2750  
 AACACCTGCACGACTCCTGCTCAAGGCAACTCTATGTTCCCTCATGTTGC  
  
 2760        2770        2780        2790        2800  
 TGTACAAAACCTACGGATGGAAATTGCACCTGTATTCCCATCCCCTCGTC  
  
 2810        2820        2830        2840        2850  
 CTGGGCTTCGCAAAATACCTATGGAGTGGCCTCAGTCCGTTCTCTT  
  
 2860        2870        2880        2890        2900  
 GGCTCAGTTACTAGTGCCATTGTTCAAGTGGTTCAGTGGTCTAGGGCTTCCCC  
  
 2910        2920        2930        2940        2950  
 ACTGTTGGCTTCAGCTATATGGATGATGTGGTATTGGGGCCAAGTCT

Figure 5B continued

2960        2970        2980        2990        3000  
 GTACAGCATCGTGAGTCCCTTATACCGCTGTTACCAATTTCCTTGT  
  
 3010        3020        3030        3040        3050  
 TCTGGGTATACTTAAACCTAACAAAACAAAAAGATGGGGTTATTCCC  
  
 3060        3070        3080        3090        3100  
 TAAACTTCATGGGCTACATAATTGGAAGTTGGGAACCTTGCCACAGGAT  
  
 3110        3120        3130        3140        3150  
 CAPATTGTACAAAAGATCAAACACTGTTTAGAAAACCTCCTGTTAACAG  
  
 3160        3170        3180        3190        3200  
 GCCTATTGATTGGAAAGTATGTCAAAGAATTGTGGGTCTTGGGCTTG  
  
 3210        3220        3230        3240        3250  
 CTGCTCCATTTACACAATGTGGATATCCTGCCCTTAATGCCTTGTATGCA  
  
 3260        3270        3280        3290        3300  
 TGTATACAAGCTAAACAGGCTTCACTTCTGCCAACTTACAAGGCCTT  
  
 3310        3320        3330        3340        3350  
 TCTAAGTAAACAGTACATGAACCTTACCCCGTTGCTCGGCAACGGCCTG  
  
 3360        3370        3380        3390        3400  
 GTCTGTGCCAAGTGTGCTGACGCAACCCCCACTGGCTGGGCTTGGCC  
  
 3410        3420        3430        3440        3450  
 ATAGGCCATCAGCGCATGCGTGGAACCTTGTGGCTCCTCTGCCGATCCA  
  
 3460        3470        3480        3490        3500  
 TACTGCGGAACTCCTAGCCGCTTGTGCTCGCAGCCGGTCTGGAGCAA  
  
 3510        3520        3530        3540        3550  
 AGCTCATCGGAACTGACAATTCTGTCGTCCTCTCGCGGAAATATACATCG  
  
 3560        3570        3580        3590        3600  
 TTTCCATGGCTGCTAGGCTGTACTGCCAAGTGGATCCTCGCGGGACGTC  
  
 3610        3620        3630        3640        3650  
 CTTTGTACGTCCCGTCGGCGCTGAATCCCGCGGACGACCCCTCGCGGG  
  
 3660        3670        3680        3690        3700  
 GCCGCTTGGGACTCTCGTCCCCCTTCTCCGTCTGCCGTTCCAGCCGACC

Figure 5B continued

3710        3720        3730        3740        3750  
 ACGGGGCGCACCTCTCTTACCGGGTCTCCCCGTCTGCCTTCATCT  
  
 3760        3770        3780        3790        3800  
 GCCGGTCCGTGTGCACCTCGCTCACCTCTGCACGTTGCATGGAGACCAC  
  
 3810        3820        3830        3840        3850  
 CGTGAACGCCCATCAGATCCTGCCAAGGTCTACATAAGAGGACTCTG  
  
 3860        3870        3880        3890        3900  
 GACTCCCAGCAATGTCAACGACCGACCTTGAGGCCTACTTCAAAGACTGT  
  
 3910        3920        3930        3940        3950  
 GTGTTAACGGACTGGGAGGAGCTGGGGGAGGAGATTAGGTTAAAGGTCTT  
  
 3960        3970        3980        3990        4000  
 TGTATTAGGAGGCTGTAGGCATAAAATTGGCTGCGCACCGACCATGCA  
  
 4010        4020        4030        4040        4050  
 ACTTTTCACCTCTGCCTAATCATCTCTGTACATGTCCCAGTCAAG  
  
 4060        4070        4080        4090        4100  
 CCTCCAAGCTGTGCCTGGGTGGCTTGGGCATGGACATTGACCCATTAT  
  
 4110        4120        4130        4140        4150  
 AAAGAATTGGAGCTACTGTGGAGTTACTCTCGTTTGCCTCTGACTT  
  
 4160        4170        4180        4190        4200  
 CTTCCCTCCGTAGAGATCTCCTAGACACCGCCTCAGCTCTGTATCGAG  
  
 4210        4220        4230        4240        4250  
 AAGCCTTAGAGTCTCCTGAGCATTGCTCACCTACCATACTGCACTCAGG  
  
 4260        4270        4280        4290        4300  
 CAAGCCATTCTCTGCTGGGGGAATTGATGACTCTAGCTACCTGGGTGGG  
  
 4310        4320        4330        4340        4350  
 TAATAATTGGAAGATCCAGCATCCAGGGATCTAGTAGTCAATTATGTTA  
  
 4360        4370        4380        4390        4400  
 ATACTAACATGGGTTAAAGATCAGGCAACTATTGTGGTTCATATATCT  
  
 4410        4420        4430        4440        4450  
 TGCCCTACTTTGGAAGAGAGACTGTACTTGAATATTGGTCTTTCGG  
  
 4460        4470        4480        4490  
 AGTGTGGATTCGCACTCCTCCAGCCTATAGACCACCAAATGCCCT

Figure 5B continued

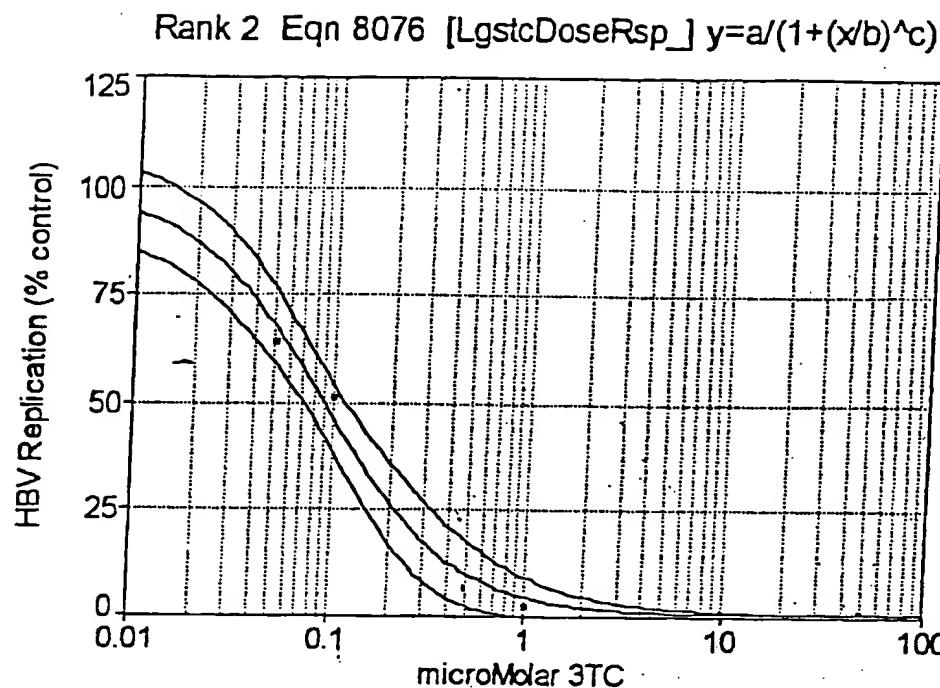


Figure 6A

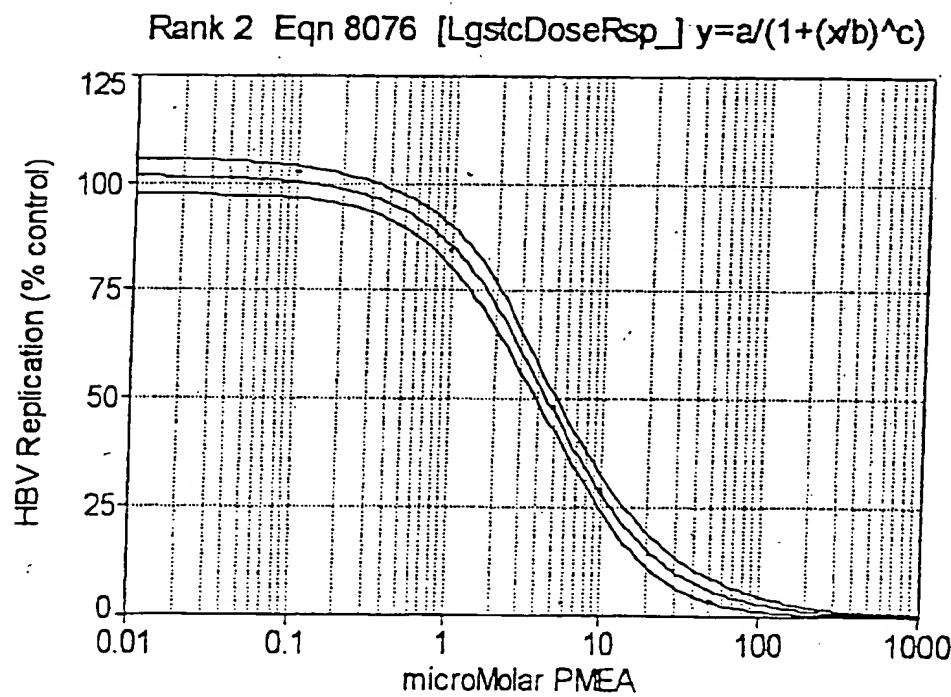
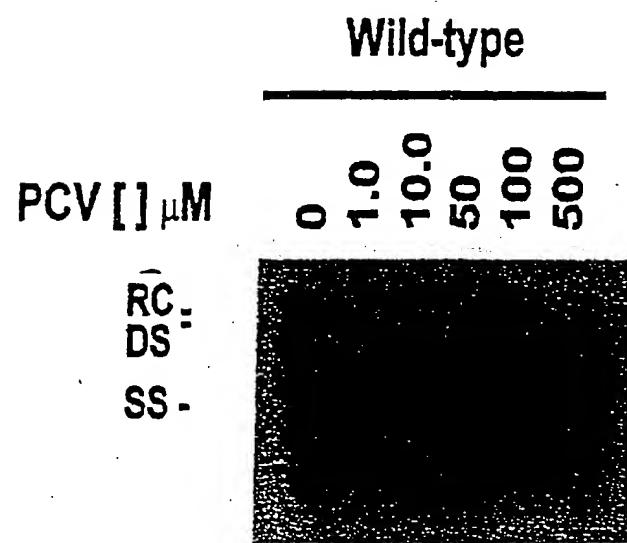


Figure 6B



**Figure 6C**

Rank 2 Eqn 8076 [LgstdoseRsp\_]  $y=a/(1+(x/b)^c)$

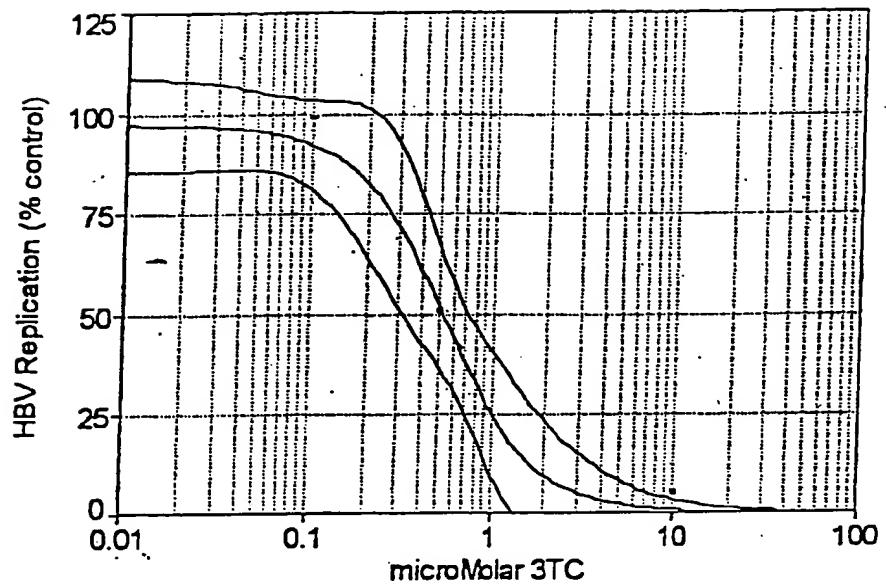


Figure 7A

Rank 2 Eqn 8076 [LgstdoseRsp\_]  $y=a/(1+(x/b)^c)$

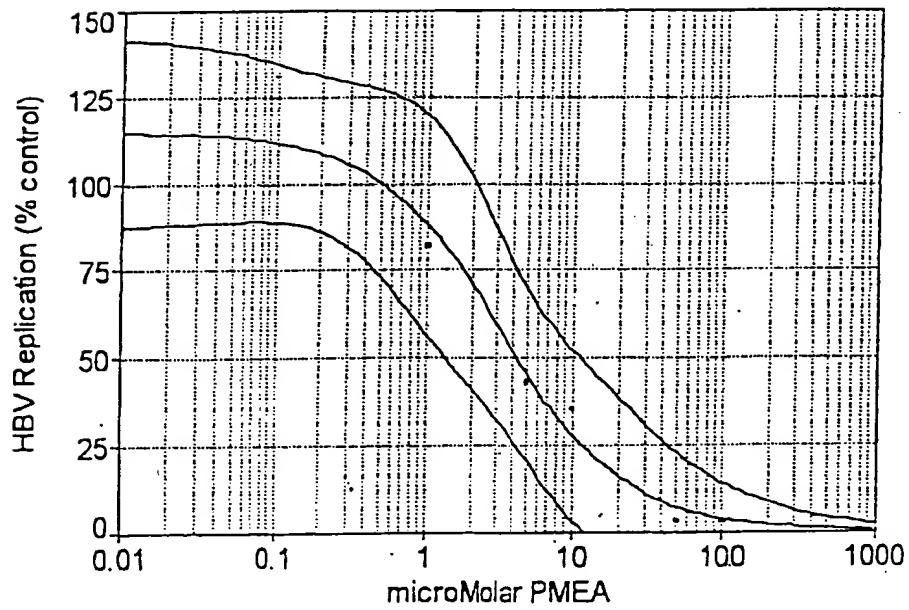
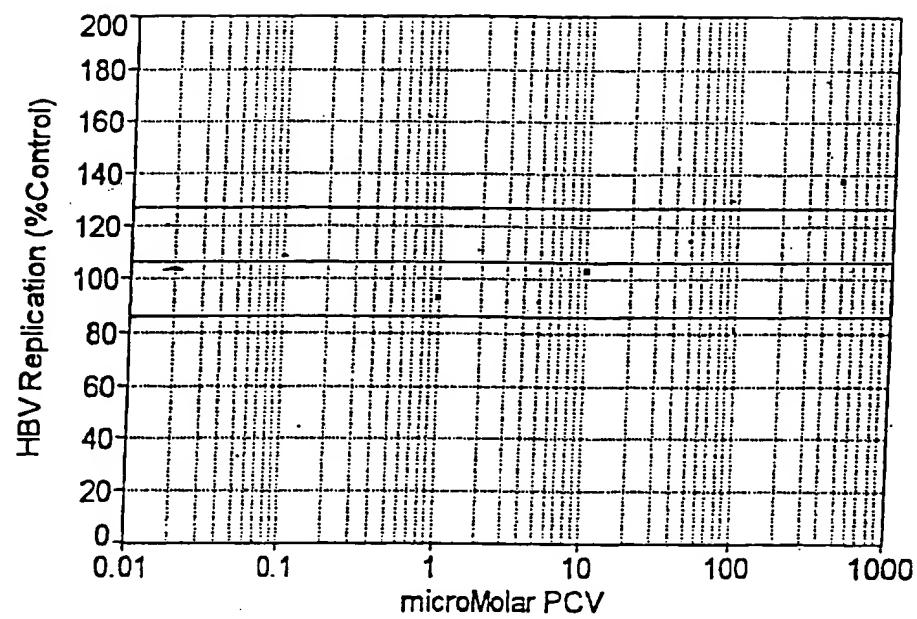


Figure 7B

Rank 45 Eqn 19  $y=a+b\ln x/x^2$



**Figure 7C**

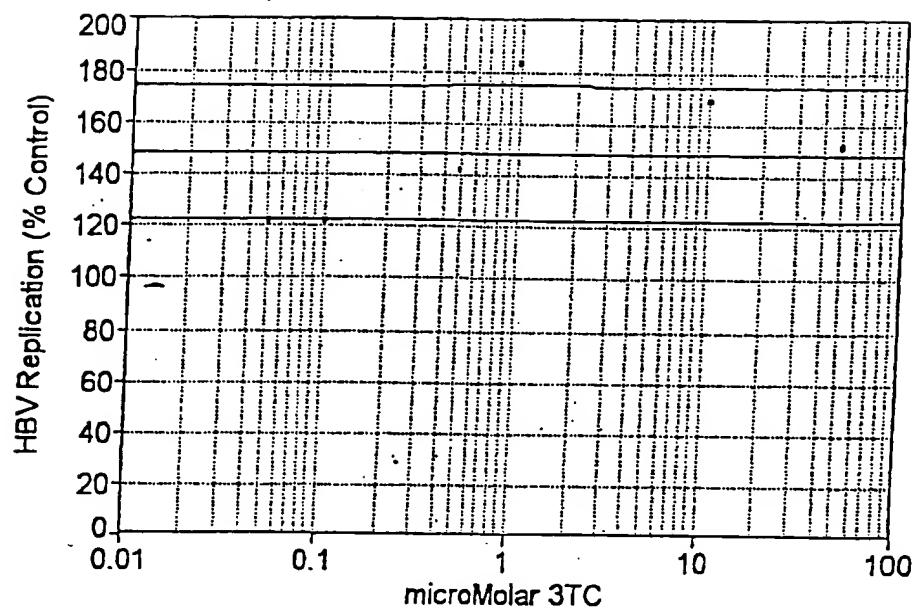
Rank 8 Eqn 10  $y=a+b(\ln x)^2$ 

Figure 8A

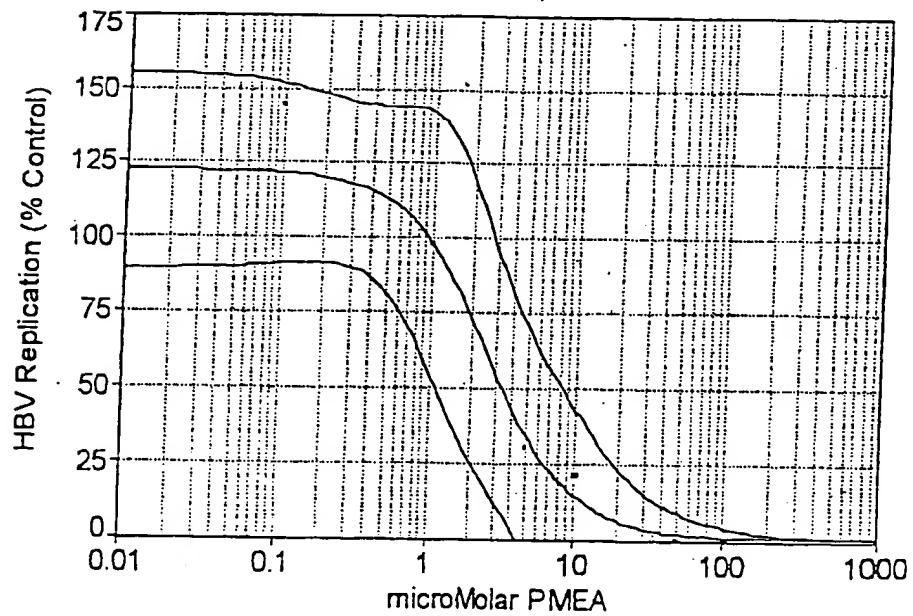
Rank 2 Eqn 8076 [LgStcDoseRsp]  $y=a/(1+(x/b)^c)$ 

Figure 8B

Rank 34 Eqn 10  $y=a+b(\ln x)^2$

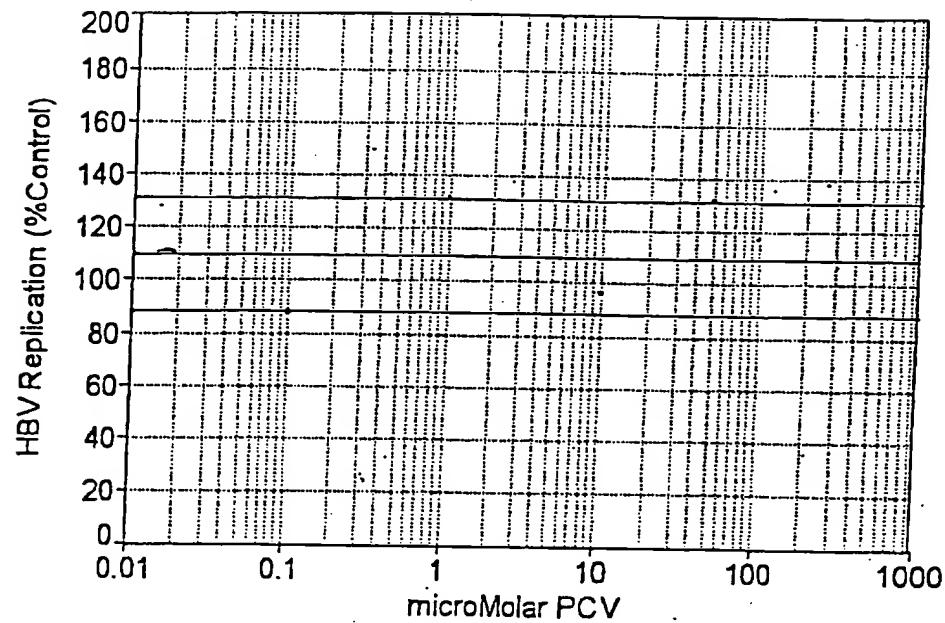


Figure 8C

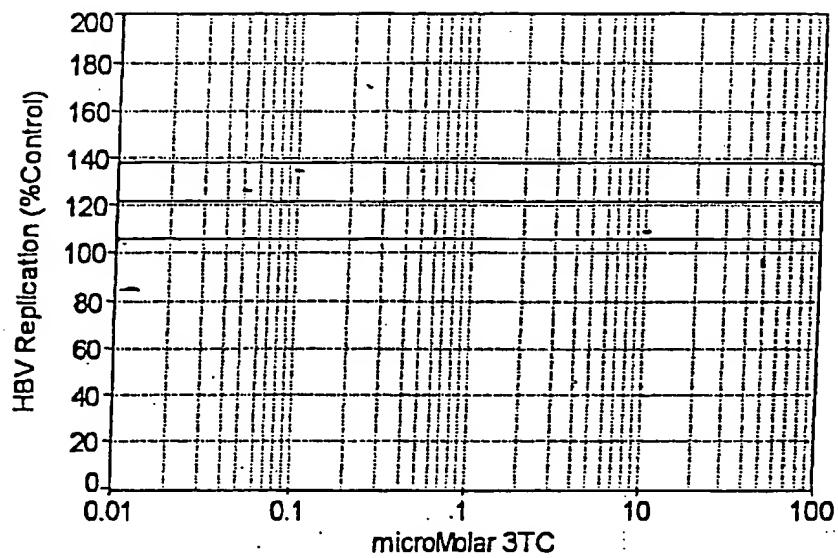
Rank 45 Eqn 10  $y=a+b(\ln x)^2$ 

Figure 9A

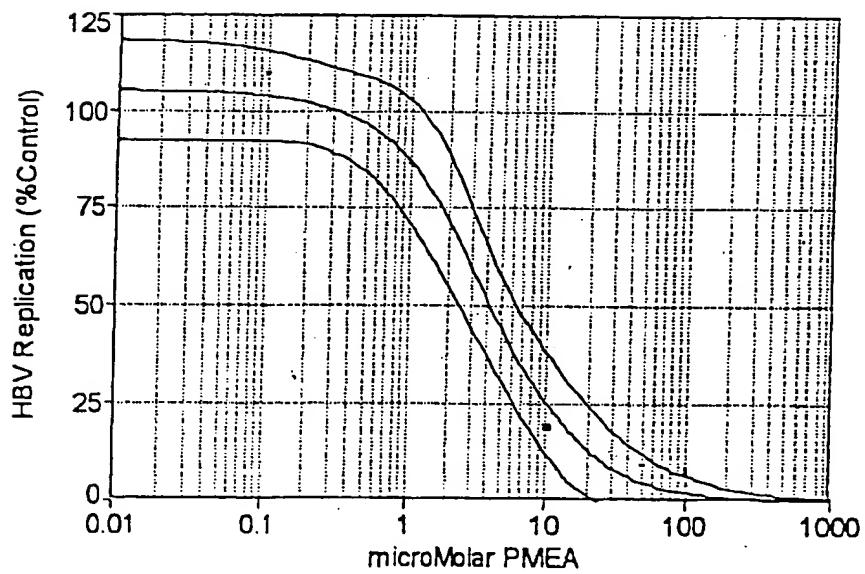
Rank 2 Eqn 8076 [LgstcDoseRsp\_]  $y=a/(1+(x/b)^c)$ 

Figure 9B

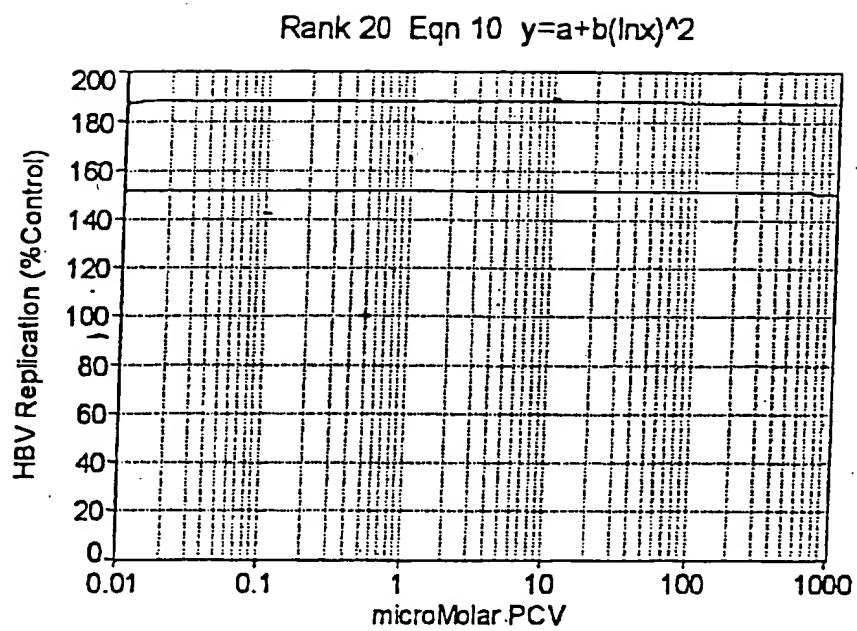


Figure 9C

## Cold dCTP Competition

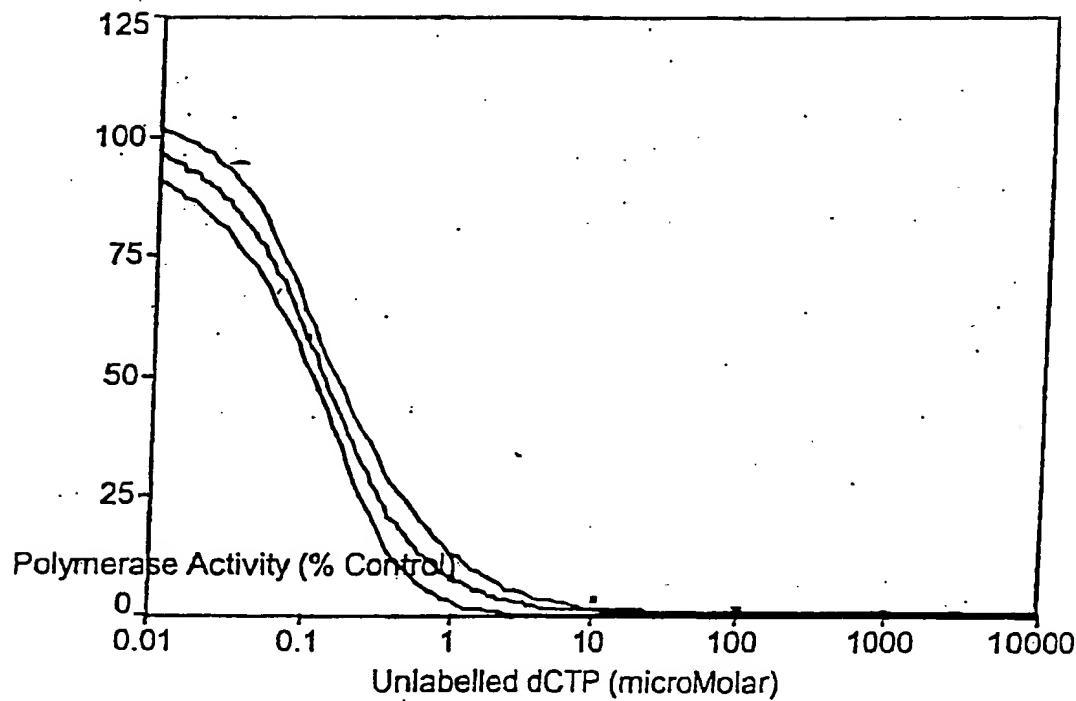
Rank 2 Eqn 8076 [LgstdoseRsp]  $y = a/(1 + (x/b)^c)$ 

Figure 10

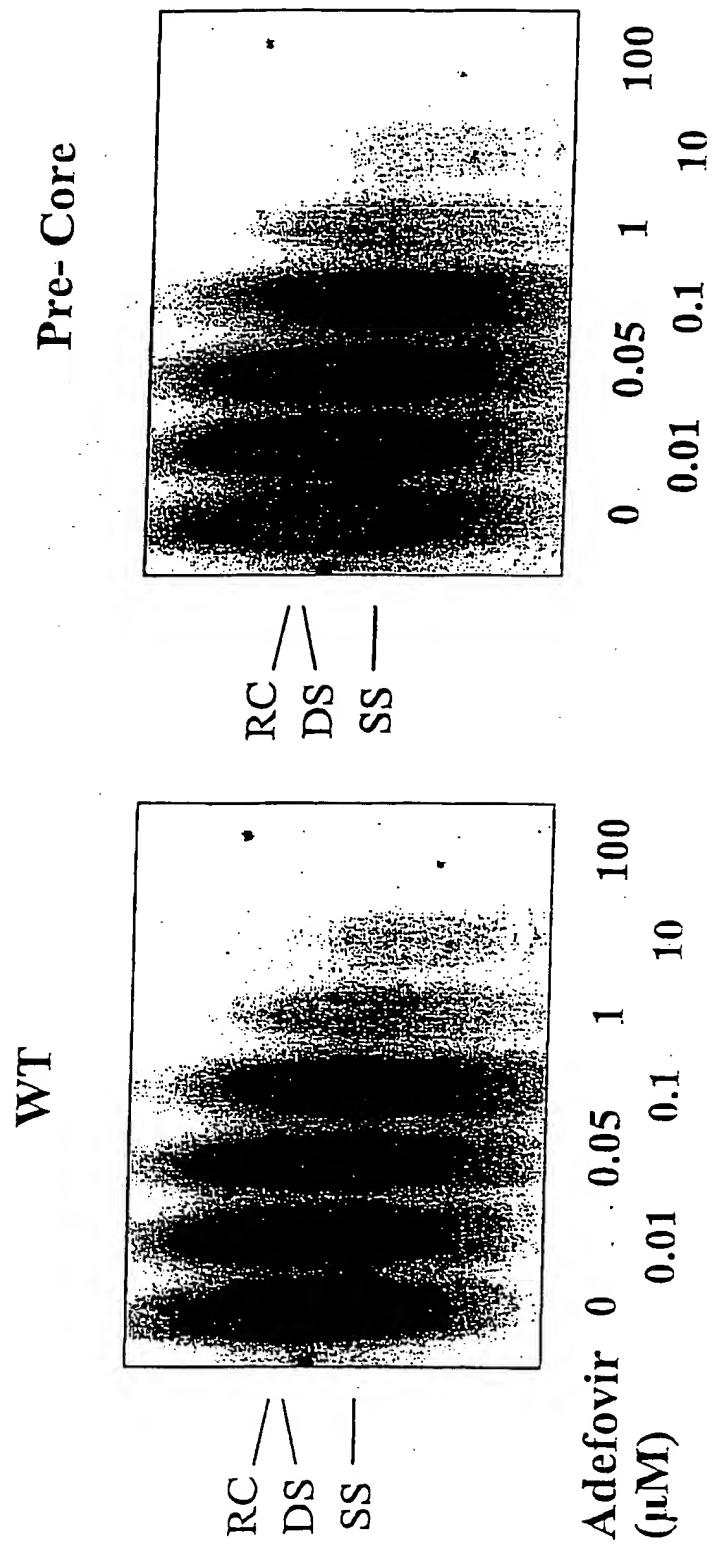


Figure 11A

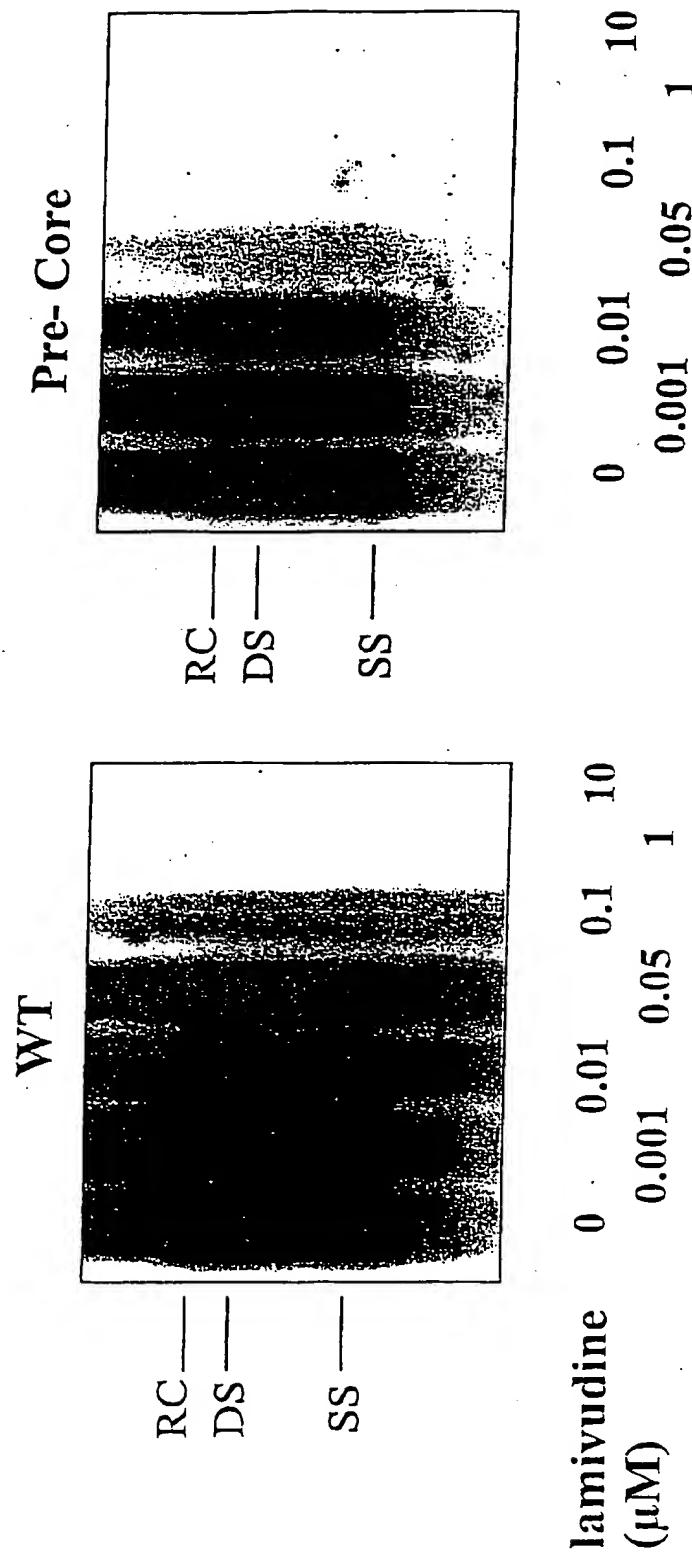


Figure 11B

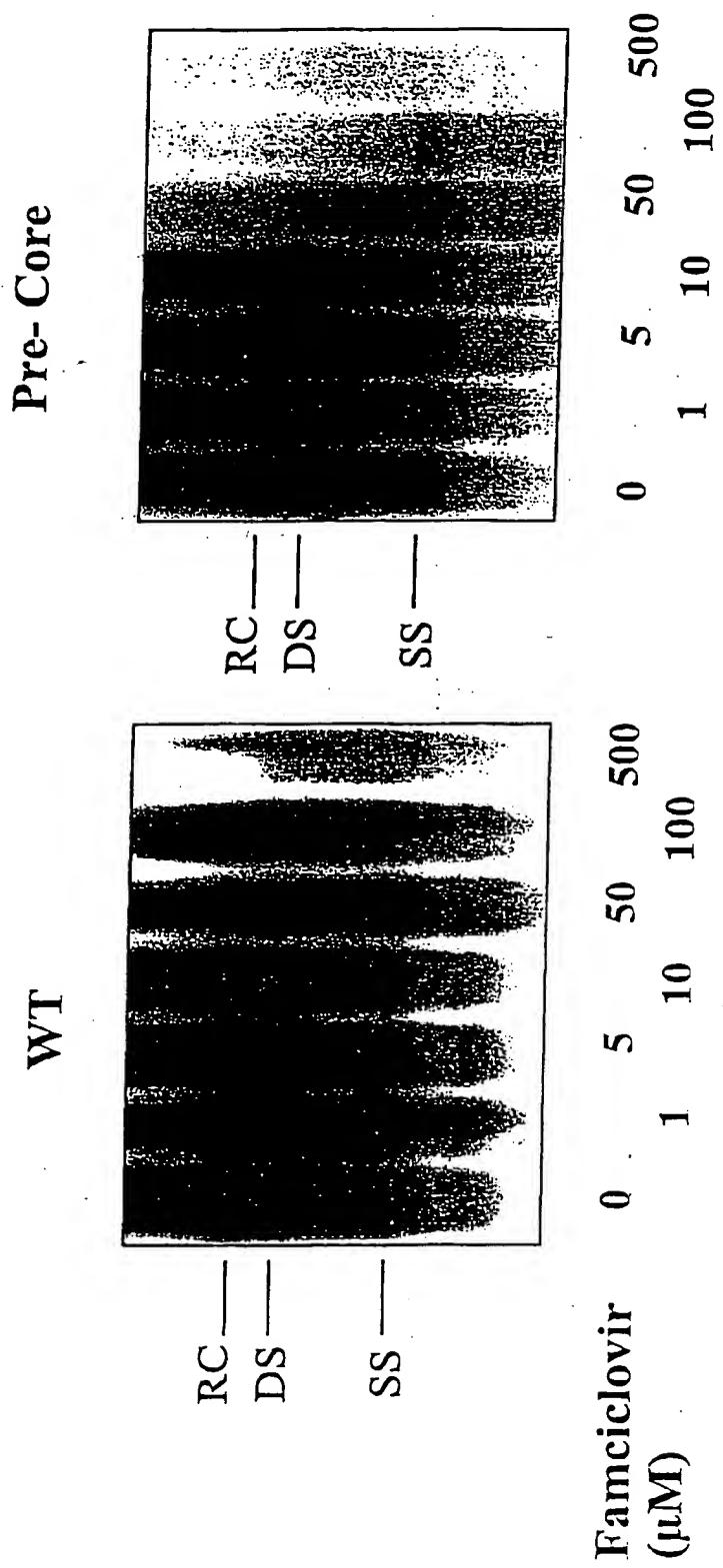


Figure 11C

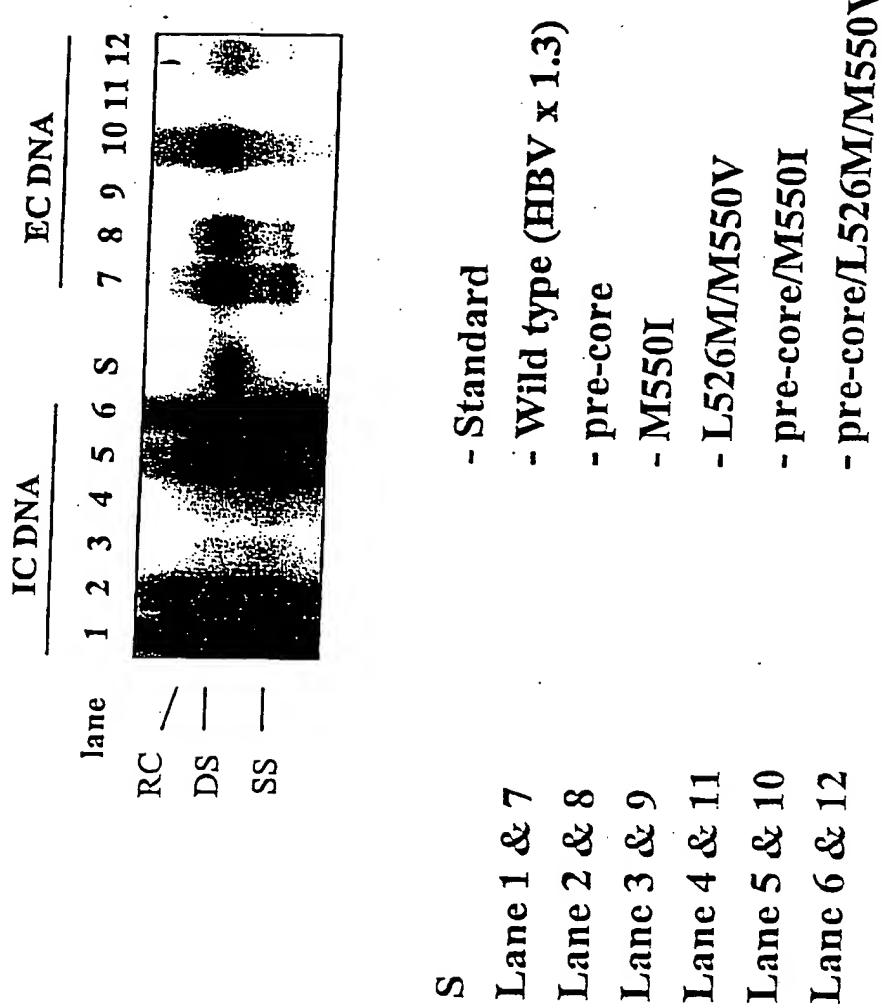


Figure 12

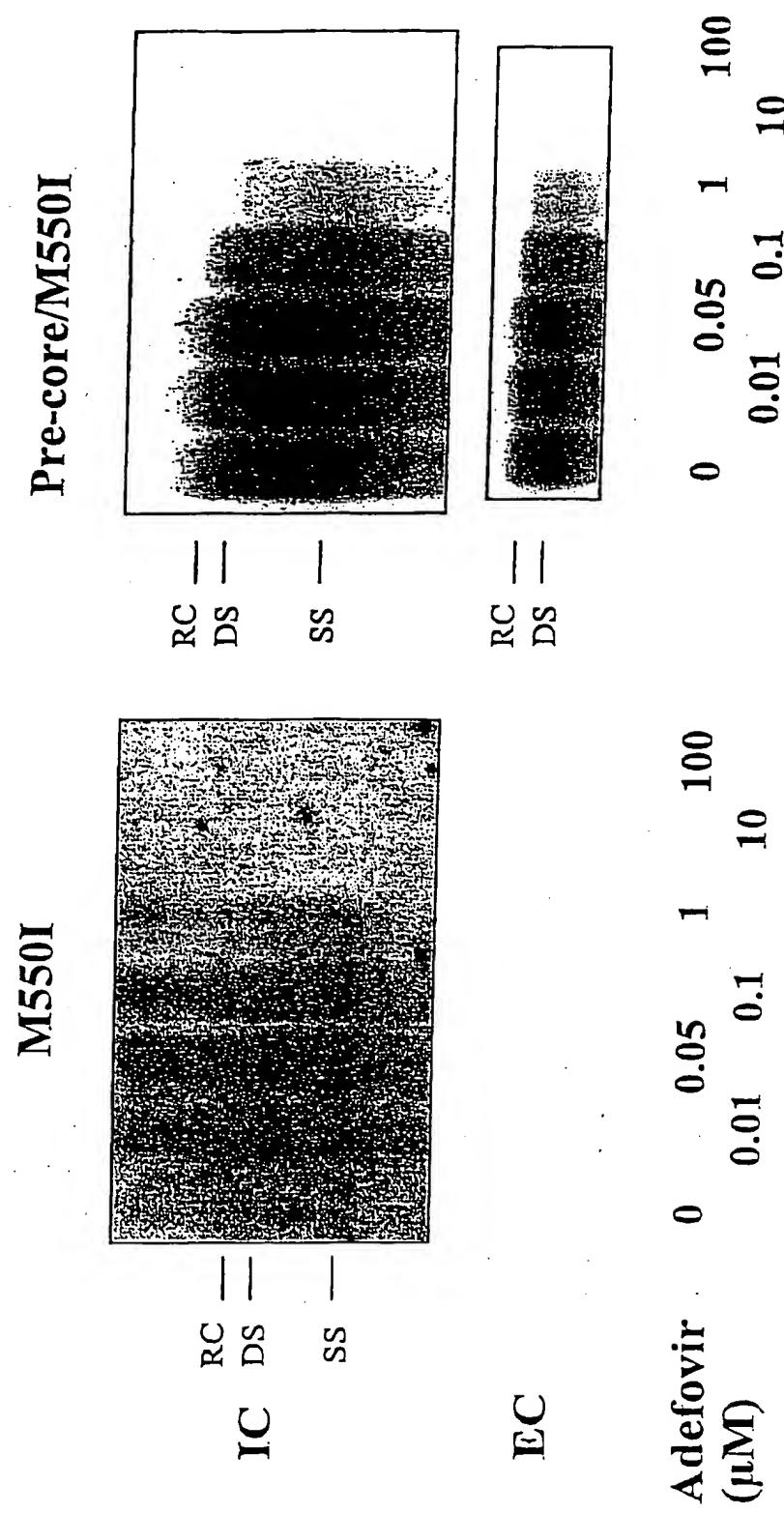


Figure 13A

## L526M/M550V pre-core/L526M/M550V

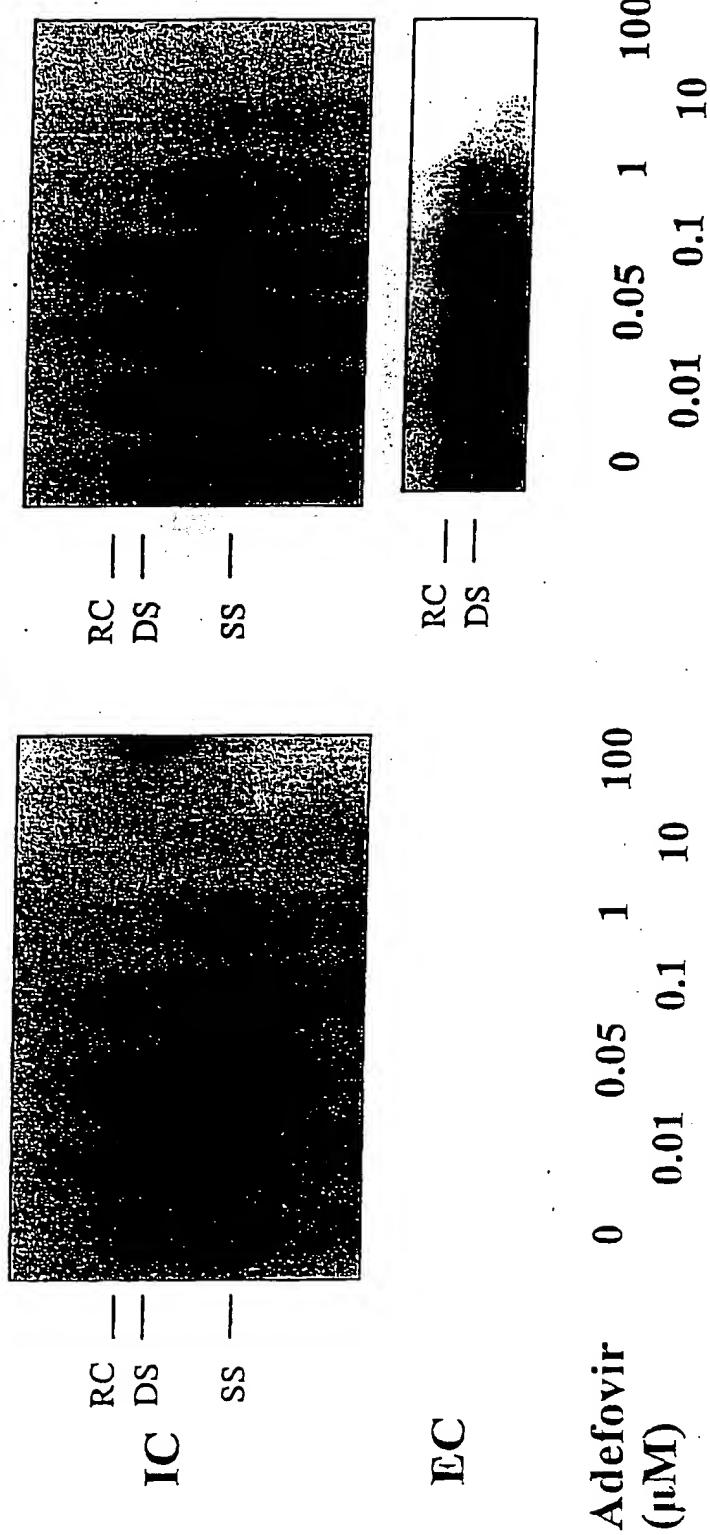


Figure 13B

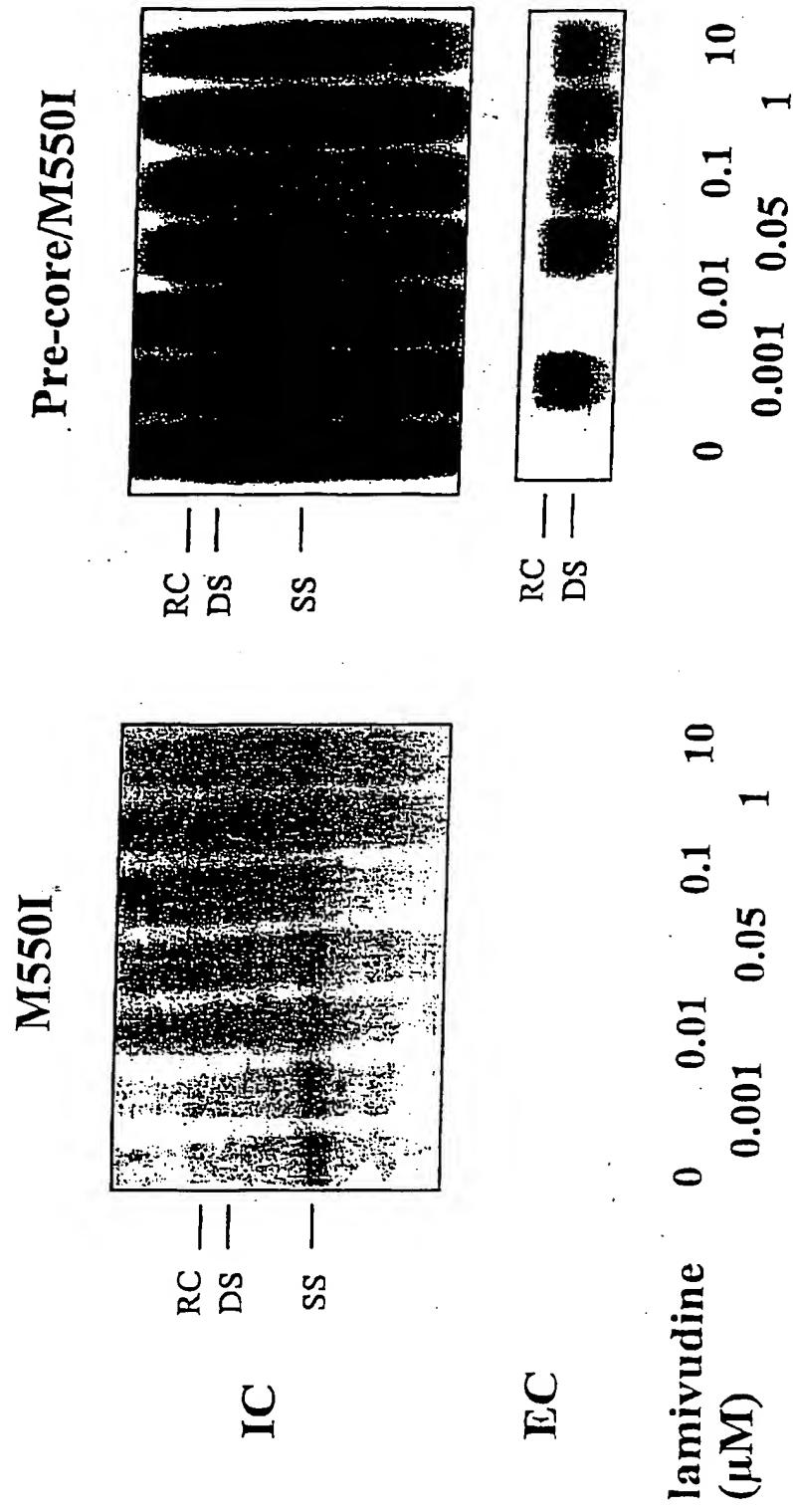


Figure 13C

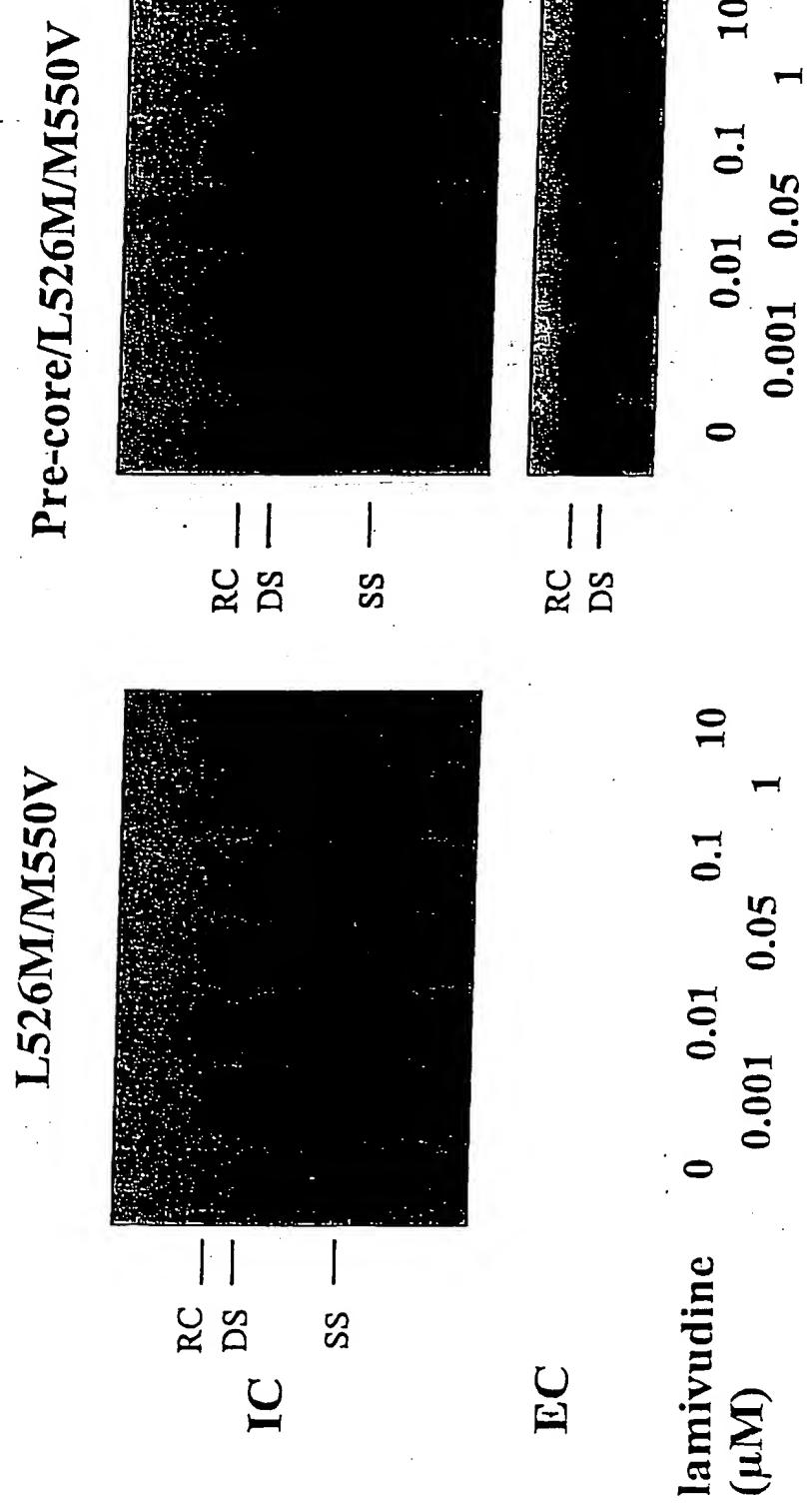


Figure 13D

## M550I Pre-core/M550I

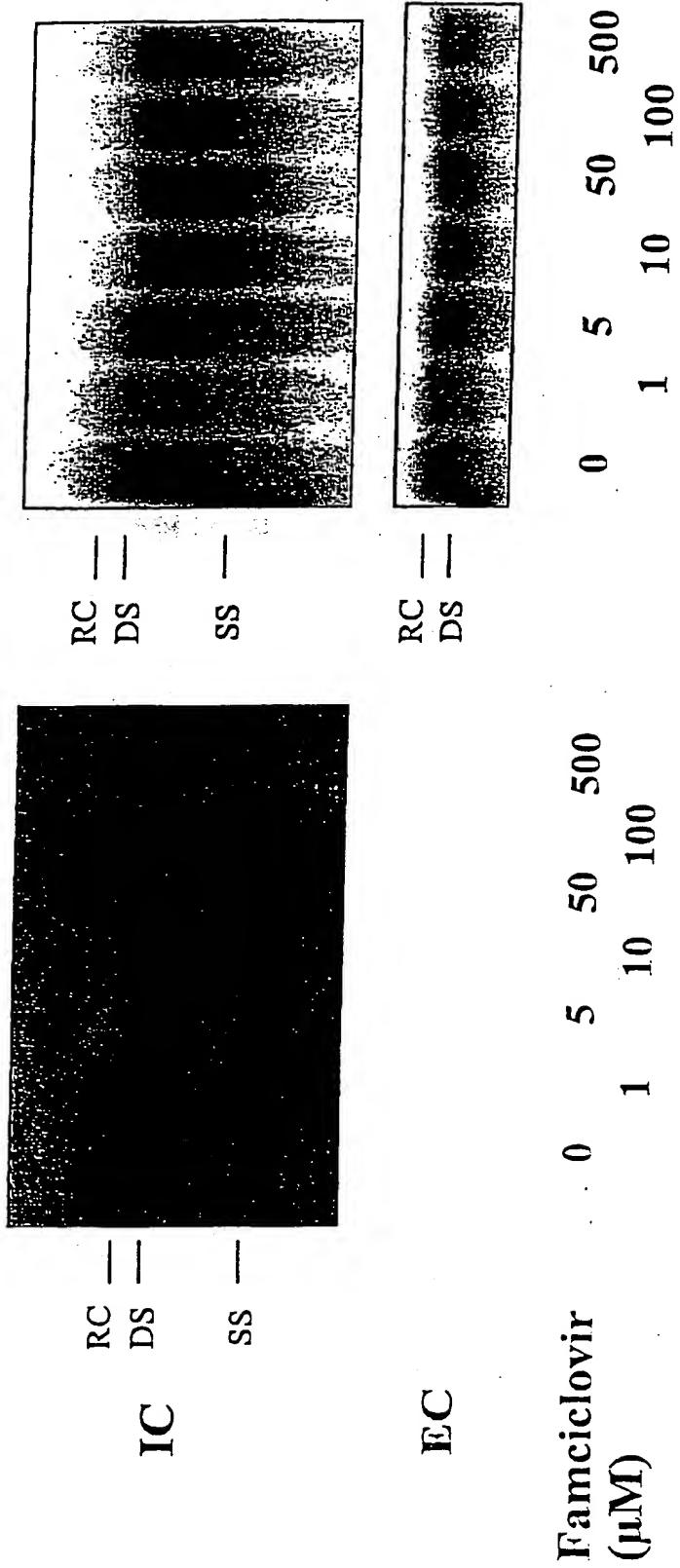


Figure 13E

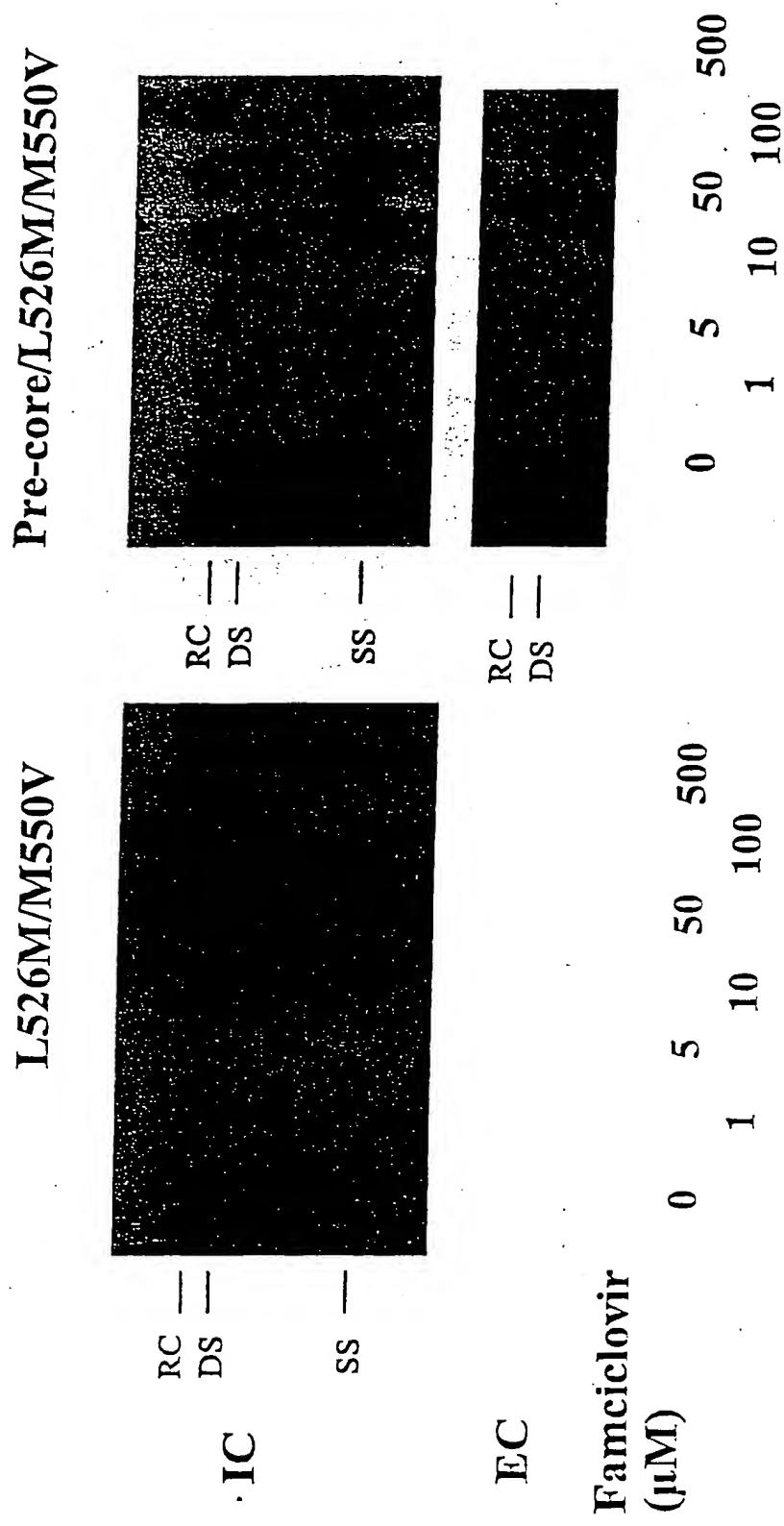


Figure 13F